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Section 1

General Information

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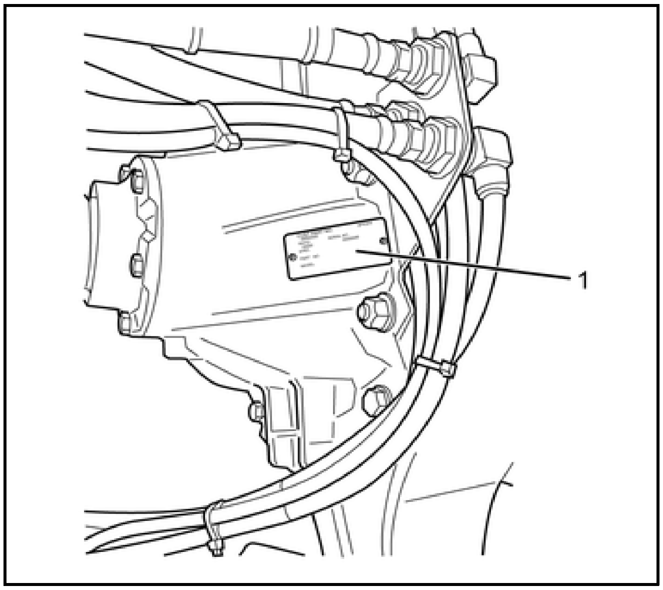
General Information

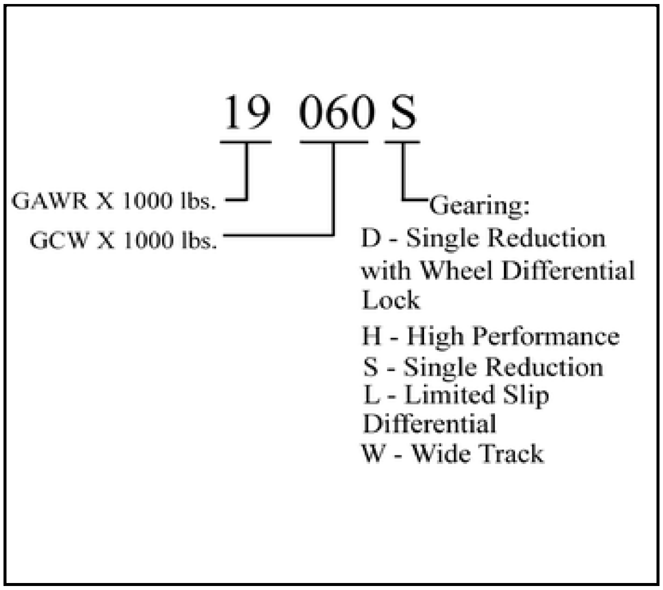
Visual Identification

Rear Axle Identification



4826433

The Rear Axle Identification Tag (1) is located on the top of the rear axle.

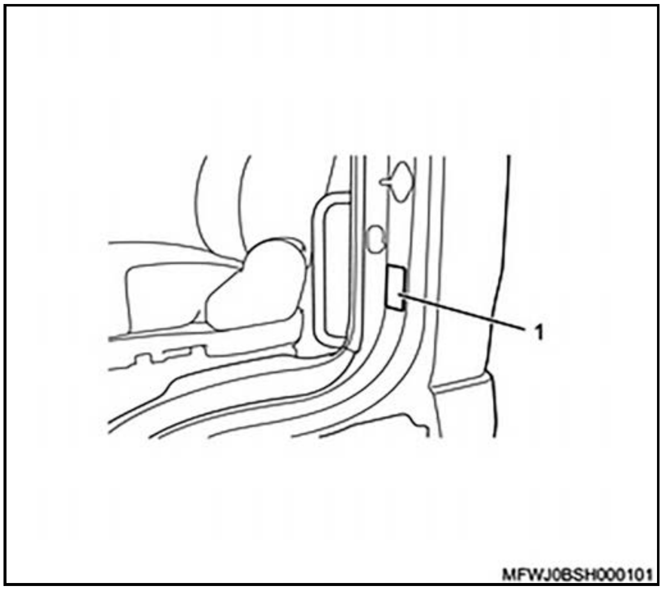

19 060 S
GAWR X 1000 lbs.
GCW X 1000 lbs.
Gearing:
D - Single Reduction with Wheel Differential Lock
H - High Performance
S - Single Reduction
L - Limited Slip Differential
W - Wide Track

4826602

Introduction

Vehicle, Engine and Transmission ID and VIN Location, Derivative and Usage

The VIN label is attached to the driver door opening.


1
MFWJ0BSH000101

4861122

Vehicle Identification Number (VIN) System

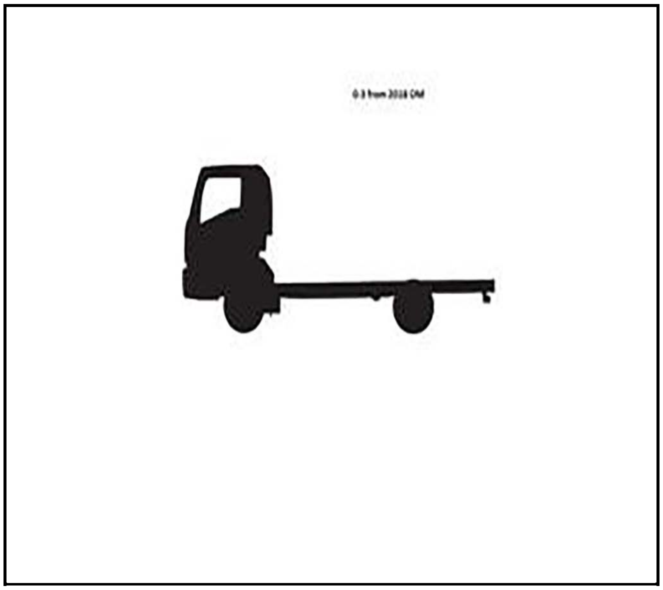
Position	Definition	Character	Description
1	Country of Origin	J	Japan (JAL)
		5	United States (54D)
2	Manufacturer	A	Isuzu Motors Ltd.
		4	Spartan Motors Chassis Inc.

Vehicle Identification Number (VIN) System (cont'd)

Position	Definition	Character	Description
3	Make	L	Incomplete Vehicle — Medium and Heavy Duty
		D	Incomplete Vehicle
4	GVWR/Brake System/Body Style	B	10,001–14,000 lbs/Hydraulic/03–Regular Cab
		C	14,001–16,000 lbs/Hydraulic/03–Regular Cab
		E	16,001—19,500 lbs/Hydraulic/03–Regular Cab
		B	10,001–14,000 lbs/Hydraulic/43–Crew Cab
		C	14,001–16,000 lbs/Hydraulic/43–Crew Cab
		K	23,501–26,000 lbs/Air Brake
5	Make/Series	D	GM Chevrolet 3500 / 3500HD / 4500
		E	GM Chevrolet 5500HD/5500XD
		F	GM Chevrolet 6500XD
6	Line/Cab Type	J	Non-Tilt Cab, BBC = 110 Inches
		S	Tilt Cab, BBC = 81 Inches
		W	Tilt Cab, BBC = 71 Inches
7	Chassis Type	1	4x2, 2 Axles, 1 Driving
8	Engine Type	B	L96 - ENGINE GAS, 8 CYL, 6.0L, SFI, E85 MAX, IRON, GM
		C	LC8 - ENGINE LPG/CNG, 8 CYL, V8, 6.0L, SFI, GEN 1, GMNA
		6	I1B - ENGINE DIESEL, 4 CYL, 5.2L, 4HK1TC 215HP
		7	IZ3 - ENGINE DIESEL, 4 CYL, 3.0L, 4JJ1-TC 150HP
9	Check Digit	—	0~9, X - Calculated by Manufacturer
10	Model Year	G	2018
11	Plant Location	S	Charlotte, Michigan
		7	Fujisawa, Japan
12	Model Combination	F	3500HD 4J Diesel / 13,000 lbs
		K	4500XD 4H Diesel / 16,000 lbs
		9	5500HD 4H Diesel / 17,950 lbs
		3	5500XD 4H Diesel / 19,500 lbs
		G	6500XD 4H Diesel / 25,950 lbs
		8	Gas / 3500 L96 Gas / 12,000 lbs
		8	Gas / 4500 L96 Gas / 14,500 lbs
13–17	Sequence Number	—	Positions 13 through 17 represent the number sequentially assigned by the manufacturer in the production process.

Model Identification

F Series FTR



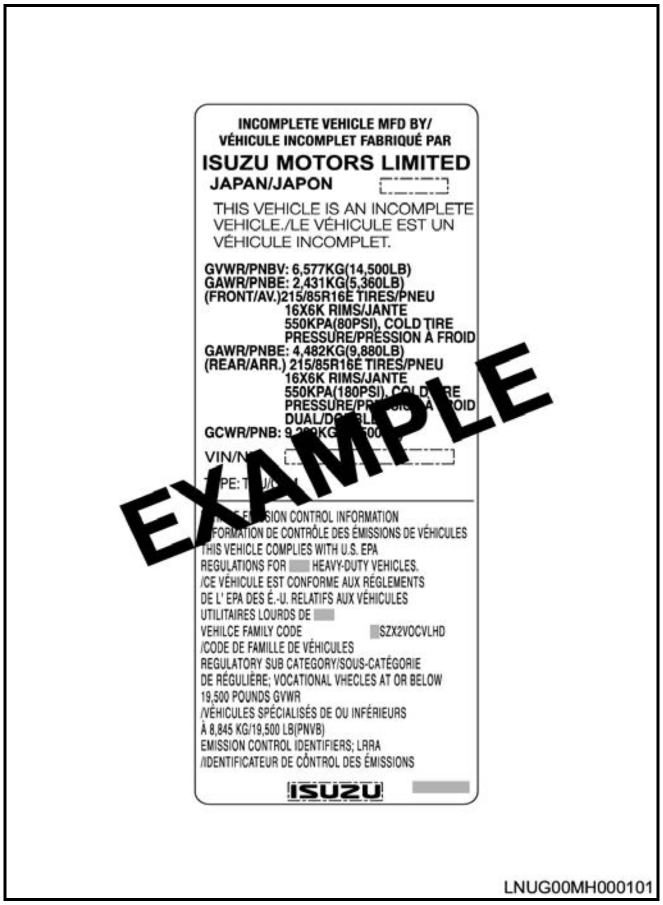
4826604

Vehicle Certification and Greenhouse Gas (GHG) Emissions Plate

The "Vehicle Certification and Greenhouse Gas (GHG) Emissions Plate" shows the manufacture's gross vehicle weight rating (GVWR), the front and rear gross axle weight ratings (GAWRs), as well as the VIN and emissions information for your vehicle. This plate is located on the left side rear pillar panel below the striker. The VIN is a legal identifier of your vehicle.

It not only appears on the "VIN, Weight Rating, and Greenhouse Gas (GHG) emissions Plate", but also on the vehicle title and registration

The VIN specifically identifies a vehicle by code.


EXAMPLE
LNUG00MH000101

INCOMPLETE VEHICLE MFD BY/
VÉHICULE INCOMPLET FABRIQUÉ PAR
ISUZU MOTORS LIMITED
JAPAN/JAPON

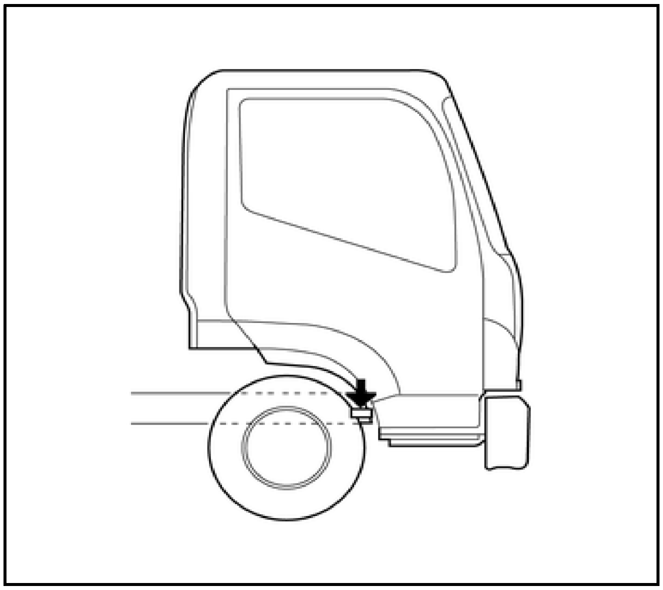
THIS VEHICLE IS AN INCOMPLETE VEHICLE./LE VÉHICULE EST UN VÉHICULE INCOMPLET.

GVWR/PNBV: 6,577KG(14,500LB)
GAWR/PNBE: 2,431KG(5,360LB)
(FRONT/AV.)215/85R16E TIRES/PNEU
16X6K RIMS/JANTE
550KPA(80PSI), COLD TIRE
PRESSURE/PRESSION À FROID
GAWR/PNBE: 4,482KG(9,880LB)
(REAR/ARR.) 215/85R16E TIRES/PNEU
16X6K RIMS/JANTE
550KPA(180PSI), COLD [illegible]RE
PRESSURE/PR[illegible] À [illegible]OID
DUAL/DO[illegible]BLE
GCWR/PNB: 9,[illegible]KG[illegible]500[illegible]
VIN/N[illegible]
[illegible]PE: T[illegible]U/C[illegible]

[illegible] E[illegible]SION CONTROL INFORMATION
[illegible]FORMATION DE CONTRÔLE DES ÉMISSIONS DE VÉHICULES
THIS VEHICLE COMPLIES WITH U.S. EPA
REGULATIONS FOR ▨ HEAVY-DUTY VEHICLES.
/CE VÉHICULE EST CONFORME AUX RÉGLEMENTS
DE L' EPA DES É.-U. RELATIFS AUX VÉHICULES
UTILITAIRES LOURDS DE ▨
VEHILCE FAMILY CODE ▨SZX2VOCVLHD
/CODE DE FAMILLE DE VÉHICULES
REGULATORY SUB CATEGORY/SOUS-CATÉGORIE
DE RÉGULIÈRE; VOCATIONAL VHECLES AT OR BELOW
19,500 POUNDS GVWR
/VÉHICULES SPÉCIALISÉS DE OU INFÉRIEURS
À 8,845 KG/19,500 LB(PNVB)
EMISSION CONTROL IDENTIFIERS; LRRA
/IDENTIFICATEUR DE CÔNTROL DES ÉMISSIONS
ISUZU

4696188

Vehicle Identification



4826608

Stamped on the outer right frame rail, just in front of the right tire.

RPO Code List

The RPO list contains RPOs available on this model. Also, refer to the Service Parts Identification label for a list of the RPOs used on each specific vehicle.

Option Code	Option Description
005	RATIO-4.56 (4 5/9)
011	RATIO-5.57 (5 4/7)
015	RATIO-6.17
029	RATIO-4.77
062	RATIO-5.12
066	RATIO-4.10 (4 1/10)
092	RATIO-4.3
14B	TRIM COMBINATION-CLOTH, VERY DK GRAY (B) (97)
16U	PRIMARY COLOR-EXTERIOR, WHITE (02)152D
1WT	PACKAGE-WT OPTION 1
24J	SEAT BELT COLOR-RED, DRIVER SEAT ONLY
24K	SEAT BELT COLOR-RED, DRIVER AND PASSENGER SEAT
2TA	TIRE FRONT-LT215/85R16 E 115/112 L BW ALS VAR1
2TB	TIRE FRONT-225/70R19.5F 125/123L BW HWY VAR1
2TC	TIRE FRONT-225/70R19.5 G 125/123 L BW HWY VAR1.
3TA	TIRE REAR-LT215/85R16 E 115/112 L BW ALS VAR1
3TB	TIRE REAR-225/70R19.5F 125/123L BW HWY VAR1
3TC	TIRE REAR-225/70R19.5 G 128/126 L BW HWY VAR1
41U	PRIMARY COLOR-EXTERIOR, BLACK (8555)
46U	PRIMARY COLOR-EXTERIOR, DK GREEN (02)
47U	PRIMARY COLOR-EXTERIOR, DK BLUE MET (02)
5H5	FIRE EXTINGUISHER-2.50 LB OR EQUIV
5ME	FIRE EXTINGUISHER-5.0 LB
69I	INTERIOR TRIM-VERY DK PEWTER (01)
74U	PRIMARY COLOR-EXTERIOR, CARDINAL RED (02)
86U	PRIMARY COLOR-EXTERIOR, YELLOW (02)
9B9	GOVERNOR-ELECTRONIC SPEED SENSOR - 70 MPH
9C2	GOVERNOR-ELECTRONIC SPEED SENSOR - 65 MPH
9D2	GOVERNOR-ELECTRONIC SPEED SENSOR - 58 MPH
9E2	GOVERNOR-ELECTRONIC SPEED SENSOR - 68 MPH
9VS	COVER-SUSPENSION SEAT PROTECTOR
9W8	COVER-SEAT PROTECTOR
A1F	SEAT-FRT BKT, HIGH BACK, DRIVER & PASS
A1G	SEAT-FRT BKT, HIGH BACK, DRIVER ONLY AIR SUSPENSION & PASS
A31	WINDOW-POWER OPERATED, ALL DOORS (DO NOT USE ON NEW/ MAJOR PROGRAMS)
ATG	LOCK CONTROL, ENTRY-REMOTE ENTRY, STANDARD RANGE
AU3	LOCK CONTROL-SIDE DR, ELEC
C42	HVAC SYSTEM-HEATER, OUTSIDE AIR, DELUXE
C60	HVAC SYSTEM-AIR CONDITIONER FRT, MAN CONTROLS
C7J	GVW RATING-13,000 LBS
C7L	GVW RATING-12,000 LBS
C7P	GVW RATING-16,000 LBS
C7S	GVW RATING-14,500 LBS
C7X	GVW RATING-17,950 LBS
CD7	WIPER SYS WINDSHIELD-PULSE, WET ARM
CSM	PLANT CODE-CHARLOTTE, MI, USA
DB5	MIRROR O/S-LH & RH, WIDE LOAD, INTEGRAL ARM
DB6	MIRROR O/S-LH & RH, WIDE LOAD, ELEC REMOTE CONTROL, LIGHTED, HEATED, INTEGRAL ARM
DB8	MIRROR O/S-LH & RH, WIDE LOAD, HEATED, INTEGRAL ARM
DC1	MIRROR O/S-LH & RH, 96" WIDE, ELEC HEATED
DC3	MIRROR O/S-LH & RH, 96" WIDE, ELEC REMOTE CONTROL, HEATED
DF1	MIRROR O/S-LH & RH, 102" WIDE, ELEC HEATED
DF3	MIRROR O/S-LH & RH, 102" WIDE, ELEC HEATED, REMOTE
DF7	MIRROR O/S-LH & RH, 102" WIDE, STANDARD MIRROR HEADS
E01	STEPS-ASSIST
E8C	EQUIPMENT-CAN INTERFACE CONVERTER
EB4	WHEELBASE-109 INCH
EF7	COUNTRY-UNITED STATES OF AMERICA (USA)
EG7	WHEELBASE-236 INCH
EG9	WHEELBASE-152 INCH
EH8	WHEELBASE-170 INCH
EK6	WHEELBASE-224 INCH

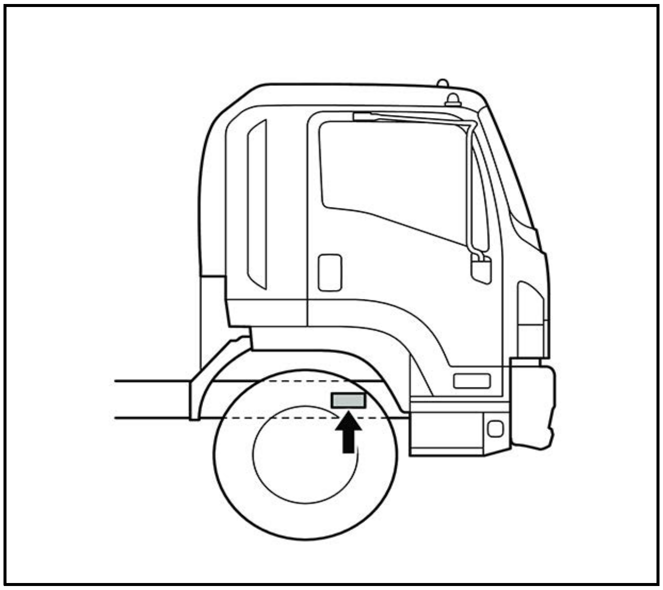
Option Code	Option Description
EK8	WHEELBASE-188 INCH
EL5	WHEELBASE-212 INCH
EM2	WHEELBASE-200 INCH
ES5	WHEELBASE-248 INCH
F26	SUSPENSION FRONT-12000 LB (5,450 KG), TAPERED LEAF
FHO	VEHICLE FUEL-GASOLINE E10
FHX	VEHICLE FUEL-DIESEL B20
FL5	AXLE FRONT-6,830 LB (3,098 KG)
FL6	AXLE FRONT-7,275 LB (3,299 KG)
FL9	SUSPENSION FRONT-6,830 LB (3,098 KG), TAPERED LEAF
FM2	SUSPENSION FRONT-8,440 LB, 3,828 KG) TAPERED LEAF
FNJ	WHEELBASE-132.5 INCH / 3,365 MM
FNW	WHEELBASE-176 INCH
FS7	AXLE FRONT-12,000 LB (5,450 KG), HD
FU3	SUSPENSION REAR-9,880 LB (4,481 KG), MULTILEAF
FU4	SUSPENSION REAR-12,900 LB (5,851 KG), MULTILEAF
FU5	SUSPENSION REAR-14,308 LB (6,490 KG), MULTILEAF
FU6	SUSPENSION REAR-14,550 LB (6,559 KG), MULTILEAF
FUJ	PLANT CODE-FUJISAWA, JAPAN
FWH	WHEELBASE-150 INCH/3,815 MM
G7M	EQUIPMENT-AIR DEFLECTOR - OVER CAB
G86	AXLE-LIMITED SLIP
GN8	SUSPENSION REAR-21,000 LB (9,525 KG), MULTILEAF
GZG	GVW RATING-19,500 LBS
GZI	GVW RATING-25,950 LBS
HNF	INTERIOR TRIM CONFIG-CLOTH, V DK PEWTER
HPK	AXLE REAR-19,000 LB (8,618 KG), DANA 19060S, SINGLE SPEED
HS6	AXLE REAR-11,020 LB (4,998 KG)
HS9	AXLE REAR-14,550LB (6,599 KG)
I18	ENGINEERING YEAR-2018
I1B	ENGINE-DIESEL, 4 CYL, 5.2L, 4HK1TC 215HP
IR7	TRANSMISSION-AUTO 6 SPD, HMD, A465
IX0	TRANSMISSION-AUTO 6 SPD, HMD, A460
IX2	SWITCH-DOME LAMP, REAR BODY
IZ3	ENGINE-DIESEL, 4 CYL, 3.0L, 4JJ1-TC 150HP
J69	BRAKE PARKING-MECHANICALLY OPERATED
JE4	BRAKE-AIR
JE5	BRAKE SYSTEM-PWR, ANTILOCK, FRT & RR WHL
K05	HEATER ENG-BLOCK
K34	CRUISE CONTROL-AUTOMATIC, ELECTRONIC
K40	ENGINE BRAKE-EXHAUST
K45	AIR CLEANER-HEAVY DUTY
K63	GENERATOR-110 AMP
KG3	GENERATOR-145 AMP
KG9	GENERATOR-140 AMP
KPG	CAP-DEF FILL, LOCKING
KPJ	ENGINE SHUTDOWN-AUTOMATIC
KPK	HEATER-OIL PAN
KQJ	ENGINE SHUTDOWN-AUTOMATIC, 3 MINUTE TIMER
KQN	ENGINE SHUTDOWN-AUTOMATIC, 5 MINUTE TIMER
KQS	CAP-DEF FILL, LOCKING, KEYED ALIKE
L96	ENGINE-GAS, 8 CYL, 6.0L, SFI, E85 MAX, IRON, GM
LC8	ENGINE-LPG/CNG, 8 CYL, V8, 6.0L, SFI, GEN 1, GMNA
MAH	MARKETING AREA-US, PUERTO RICO/USVI
MPQ	TRANSMISSION-AUTO 6 SPD, ALLISON, 2550RDS/HS CONV CLUTCH, WITH PARK PAWL.
MTE	PROVISIONS-FIRE EXTINGUISHER/ SAFETY REFLECTOR KIT MOUNTING
MYD	TRANSMISSION-AUTO 6 SPD, HMD, 6L90
N33	STEERING COLUMN-TILT TYPE
N3R	STEERING WHEEL-URETHANE
N4C	CERTIFICATION-EMISSION, USA 50 STATE
N4E	EMISSION SYSTEM-USA, 50 STATE
NB5	EXHAUST SYSTEM-SINGLE
NC2	EXHAUST SYSTEM-SINGLE HORIZONTAL
NH2	FUEL TANK-113L, 30 GAL
NL0	FUEL TANK-189L, 50 GAL
NL7	FUEL TANK-FRONT, 33GAL, 125L
NLX	TANK-FUEL, LH MOUNT, 33 GAL ADDITIONAL
NNB	FUEL TANK-378L, 100 GAL
NPV	EXHAUST SYSTEM-SINGLE VERTICAL MUFF & TAILPIPE CAB MOUNTED
PTO	ENGINE CONTROL-POWER TAKE OFF (PTO) CONTROLS
PTX	ENGINE CONTROL-POWER TAKE-OFF (PTO), CONTROLS - NONE

Option Code	Option Description
PWJ	WHEEL-16 X 6.0, K, STEEL, DESIGN 1
PWK	WHEEL-19.5 X 6.0, K STEEL, DESIGN 1
RQ2	VEHICLE APPLICATION-TRUCK SERVICE
RTP	WHEEL-22.5 X 8.25, J, STEEL, DESIGN 1
RWL	CHASSIS DRIVE LINE-REAR WHEEL DRIVE (RWD)
TD1	REFLECTOR-SAFETY TRIANGLE
TP6	BATTERY-750 CCA, 12V, (SINGLE)
TP7	BATTERY-750 CCA, 12V, (DUAL)
UAD	SPEAKER SYSTEM-2, FRONT, BASE
UDH	DISPLAY INSTRUMENT-DRIVER INFO (ONE COLOR GRAPHIC)
UIY	RADIO-AM STEREO/FM STEREO, CD, AUX INPUT, USB PORT
UIZ	RADIO-AM STEREO/FM STEREO, CD, AUX INPUT, USB PORT, BLUETOOTH
UL5	RADIO-(NONE)
UZF	ALARM B/U-ELECTRICAL,
V10	PROVISION OPTIONS-COLD WEATHER
V22	GRILLE-RADIATOR, CHROME
V8D	VEHICLE STATEMENT-US
VT7	OWNERS MANUAL-ENGLISH LANGUAGE
VWX	GRILLE-BASE VEHICLE
VXT	VEHICLE TYPE-INCOMPLETE
WMJ	VIN MODEL YEAR-2018
X88	MARKET BRAND-CHEVROLET
XUH	TIRE FRONT-11R22.5 G 144/142 L BW HWY VAR1
XWL	MIRROR PROVISIONS-102" MIRROR BRACKET
YUH	TIRE REAR-11R22.5 G 144/142 L BW ALS VAR1
ZY1	COLOR COMBINATION-SOLID

Engine Identification

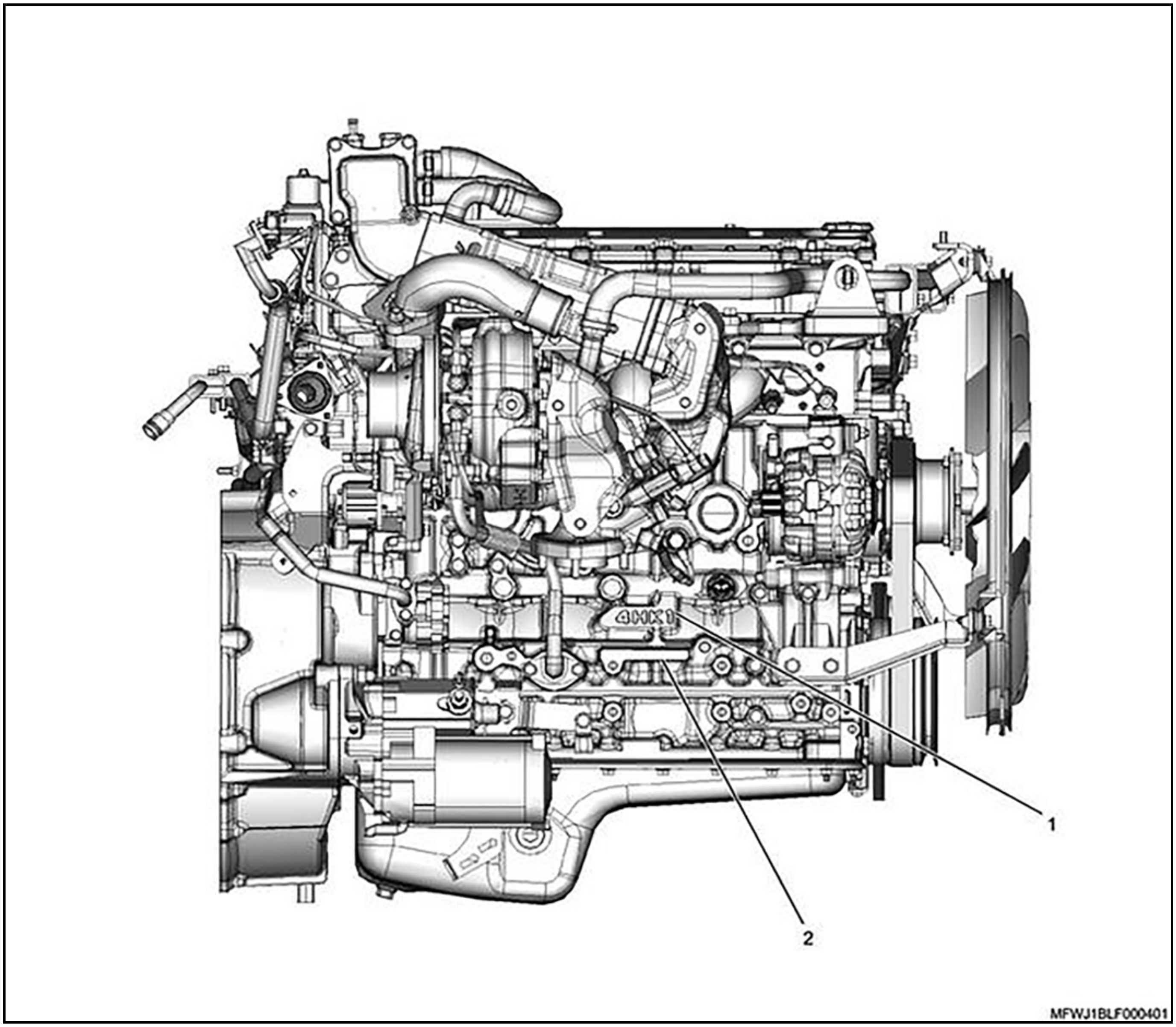
Chassis Number

It is stamped on the front right-hand side face of the chassis side member.



4862832

Engine Number


4HX1
1
2
MFWJ1BLF000401

4861125

Legend

(1)	Engine Type Stamping Location	(2)	Engine Number Stamping Position

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Section 2

Cab and Chassis Electrical

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- **Visual Identification** 2-889
  - Connector End Views 2-889

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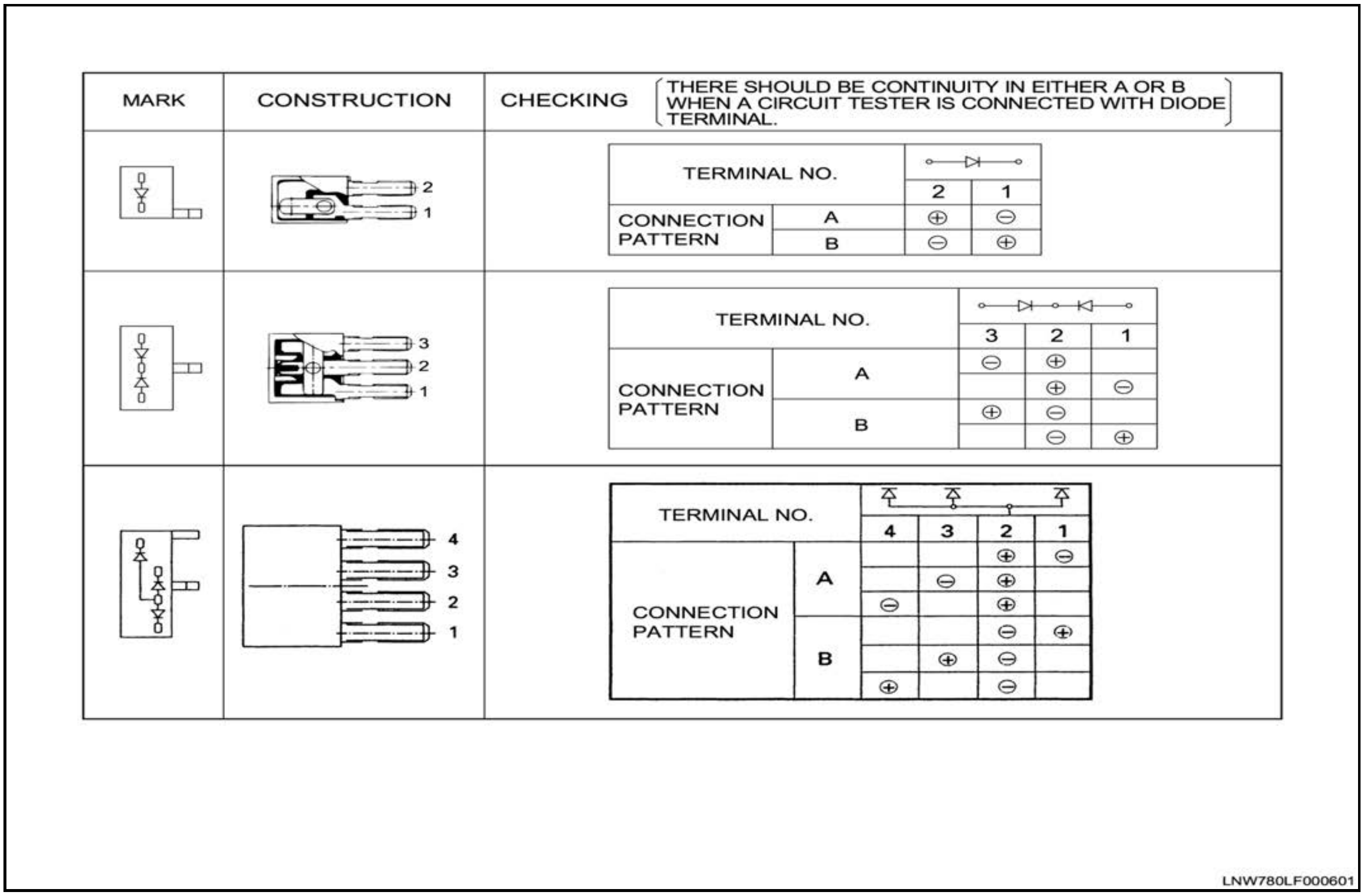
Cab and Chassis Electrical

Specifications

Diode Specifications and Configurations



MARK | CONSTRUCTION | CHECKING (THERE SHOULD BE CONTINUITY IN EITHER A OR B WHEN A CIRCUIT TESTER IS CONNECTED WITH DIODE TERMINAL.)

TERMINAL NO.		2	1
CONNECTION PATTERN	A	⊕	⊖
	B	⊖	⊕

TERMINAL NO.		3	2	1
CONNECTION PATTERN	A	⊖	⊕	
			⊕	⊖
	B	⊕	⊖	
			⊖	⊕

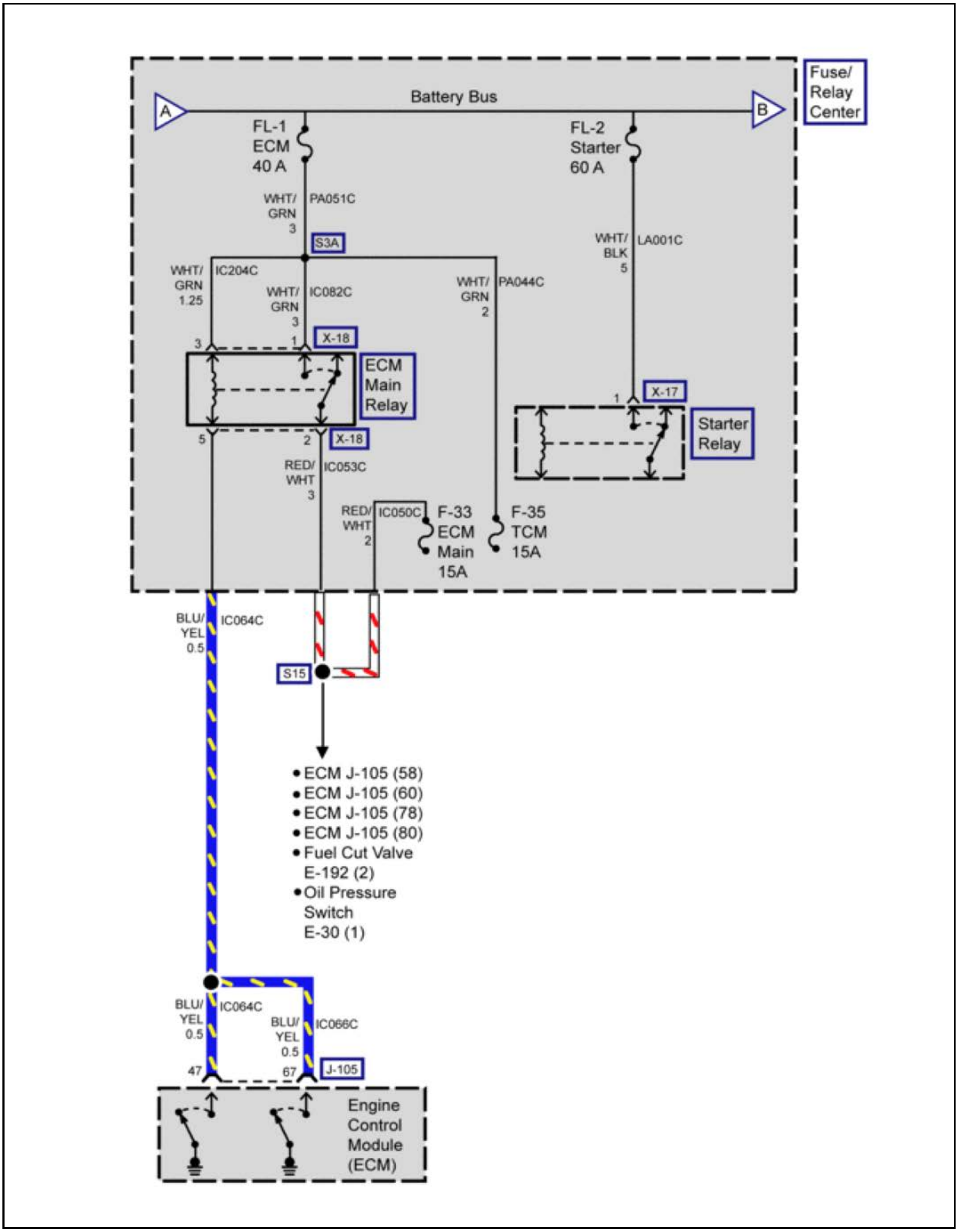
TERMINAL NO.		4	3	2	1
CONNECTION PATTERN	A			⊕	⊖
			⊖	⊕	
		⊖		⊕	
	B			⊖	⊕
			⊕	⊖	
		⊕		⊖	

4495844

Maximum Rating (Temp. = 25°C {77°F})

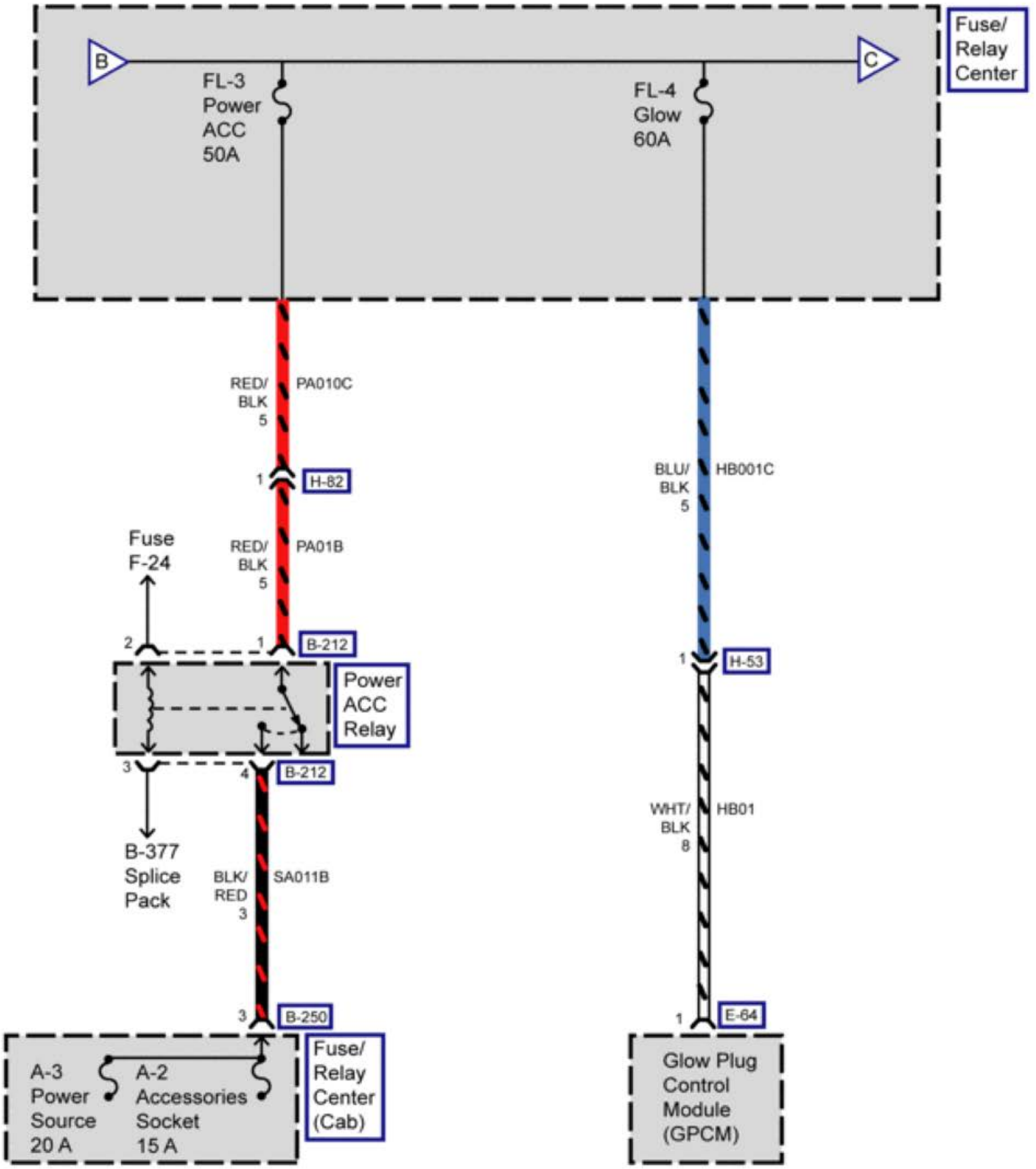
Items	Rating	Remarks
Peak Reverse Voltage	400V	—
Transient Peak Reverse Voltage	500V	—
Average Output Current	1.5A	Temp. = 40°C (104°F)
Working Ambient Temperature	-30°C – 80°C (-22°F – 176°F)	—
Storage Temperature	-40°C – 100°C (-40°F – 212°F)	—

Fuses (Center) (FL-1, FL-2 Fuses)


Battery Bus
A
B
Fuse/ Relay Center
FL-1 ECM 40 A
FL-2 Starter 60 A
WHT/ GRN 3
PA051C
S3A
WHT/ BLK 5
LA001C
WHT/ GRN 1.25
IC204C
WHT/ GRN 3
IC082C
WHT/ GRN 2
PA044C
3
1
X-18
ECM Main Relay
5
2
X-18
1
X-17
Starter Relay
RED/ WHT 3
IC053C
RED/ WHT 2
IC050C
F-33 ECM Main 15A
F-35 TCM 15A
BLU/ YEL 0.5
IC064C
S15
• ECM J-105 (58)
• ECM J-105 (60)
• ECM J-105 (78)
• ECM J-105 (80)
• Fuel Cut Valve E-192 (2)
• Oil Pressure Switch E-30 (1)
BLU/ YEL 0.5
IC064C
BLU/ YEL 0.5
IC066C
47
67
J-105
Engine Control Module (ECM)

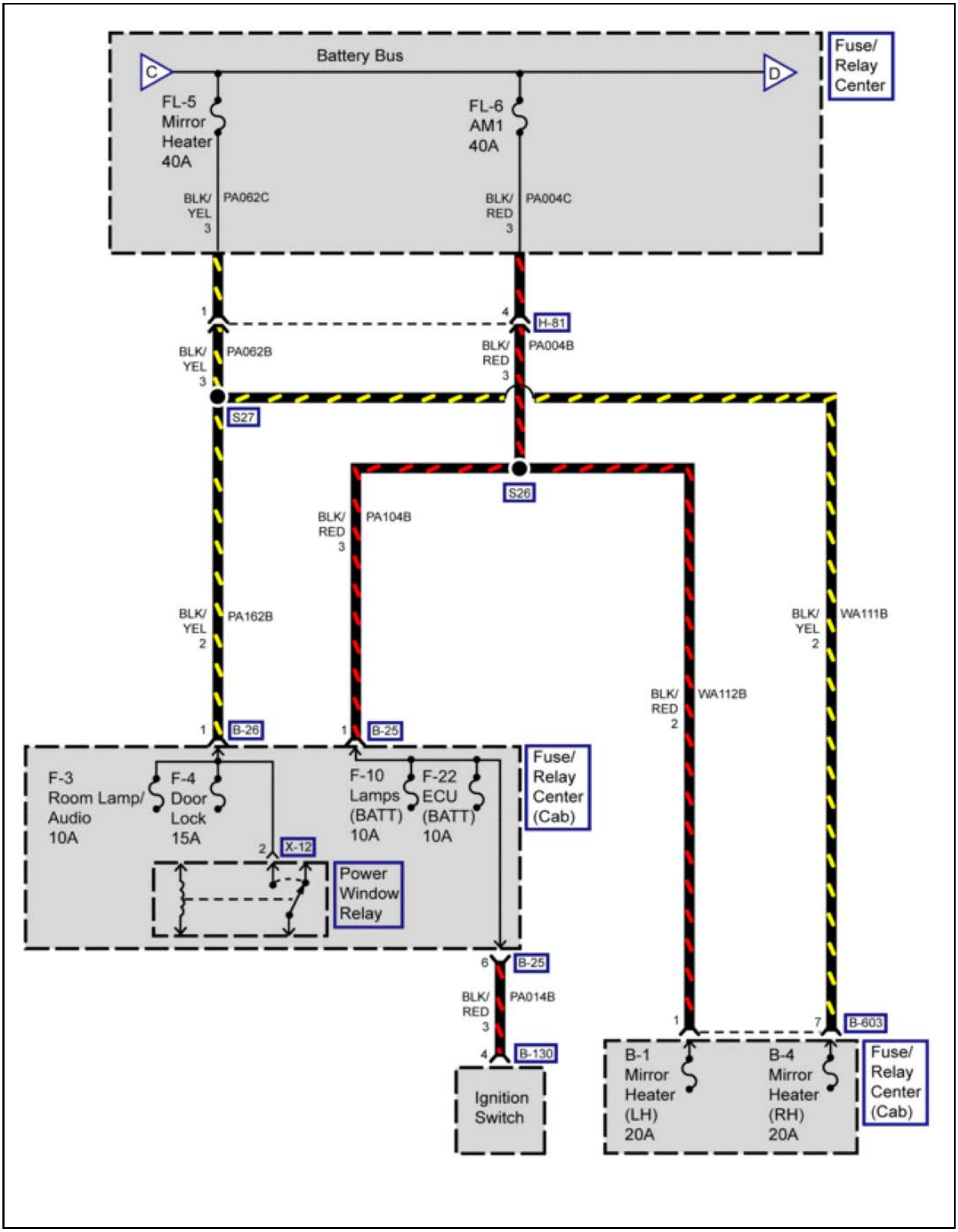
4891131

Fuses (Center) (FL-3, FL-4 Fuses)


B
C
Fuse/
Relay
Center
FL-3
Power
ACC
50A
FL-4
Glow
60A
RED/
BLK
5
PA010C
1
H-82
RED/
BLK
5
PA01B
Fuse
F-24
2
1
B-212
Power
ACC
Relay
3
4
B-212
B-377
Splice
Pack
BLK/
RED
3
SA011B
3
B-250
A-3
Power
Source
20 A
A-2
Accessories
Socket
15 A
Fuse/
Relay
Center
(Cab)
BLU/
BLK
5
HB001C
1
H-53
WHT/
BLK
8
HB01
1
E-64
Glow Plug
Control
Module
(GPCM)

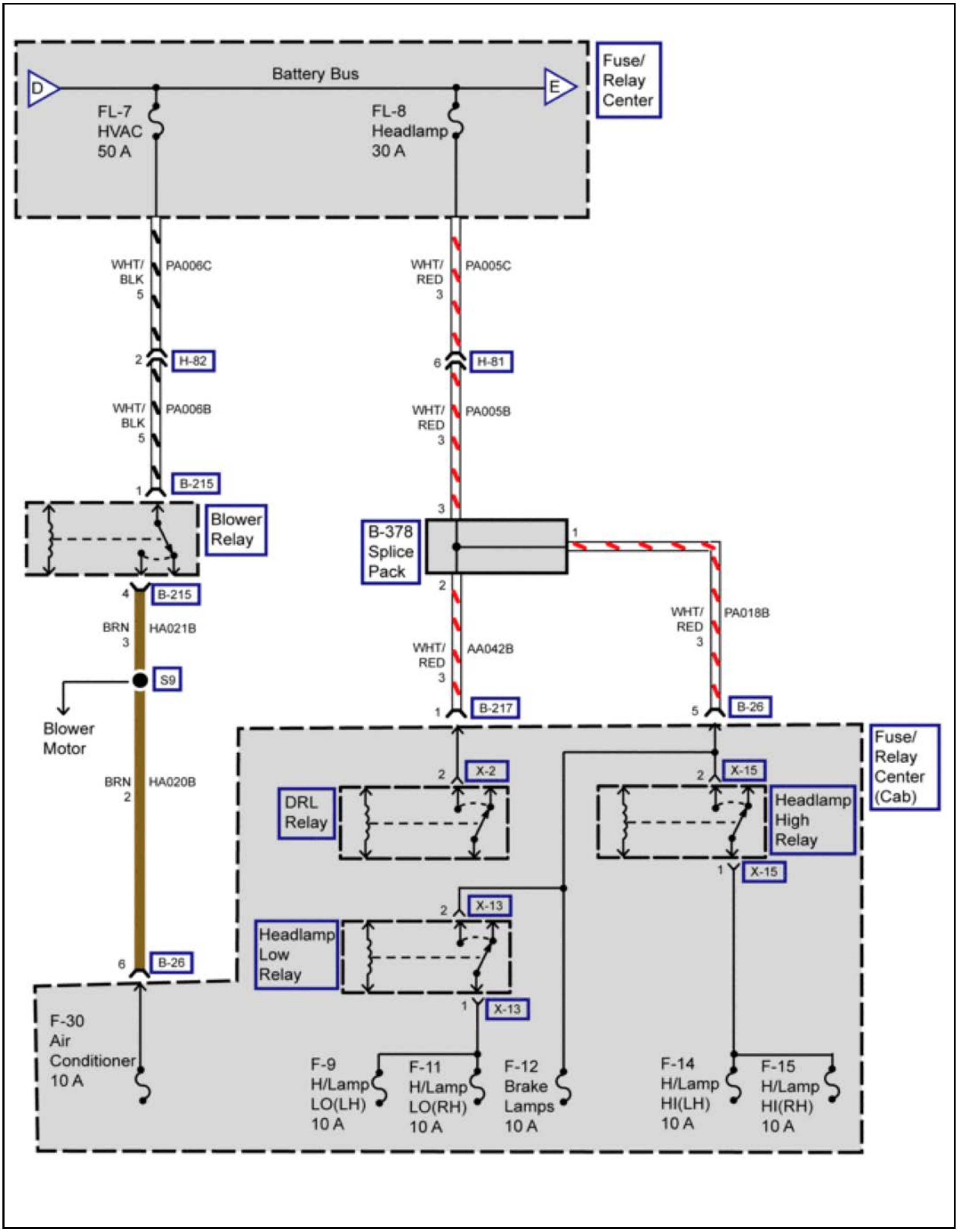
4891181

Fuses (Center) (FL-5, FL-6 Fuses)


Battery Bus
C
D
Fuse/
Relay
Center
FL-5
Mirror
Heater
40A
FL-6
AM1
40A
BLK/
YEL
3
PA062C
BLK/
RED
3
PA004C
1
4
H-81
BLK/
YEL
3
PA062B
BLK/
RED
3
PA004B
S27
S26
BLK/
RED
3
PA104B
BLK/
YEL
2
PA162B
BLK/
RED
2
WA112B
BLK/
YEL
2
WA111B
1
B-26
1
B-25
F-3
Room Lamp/
Audio
10A
F-4
Door
Lock
15A
F-10
Lamps
(BATT)
10A
F-22
ECU
(BATT)
10A
Fuse/
Relay
Center
(Cab)
2
X-12
Power
Window
Relay
6
B-25
BLK/
RED
3
PA014B
4
B-130
Ignition
Switch
1
7
B-603
B-1
Mirror
Heater
(LH)
20A
B-4
Mirror
Heater
(RH)
20A
Fuse/
Relay
Center
(Cab)

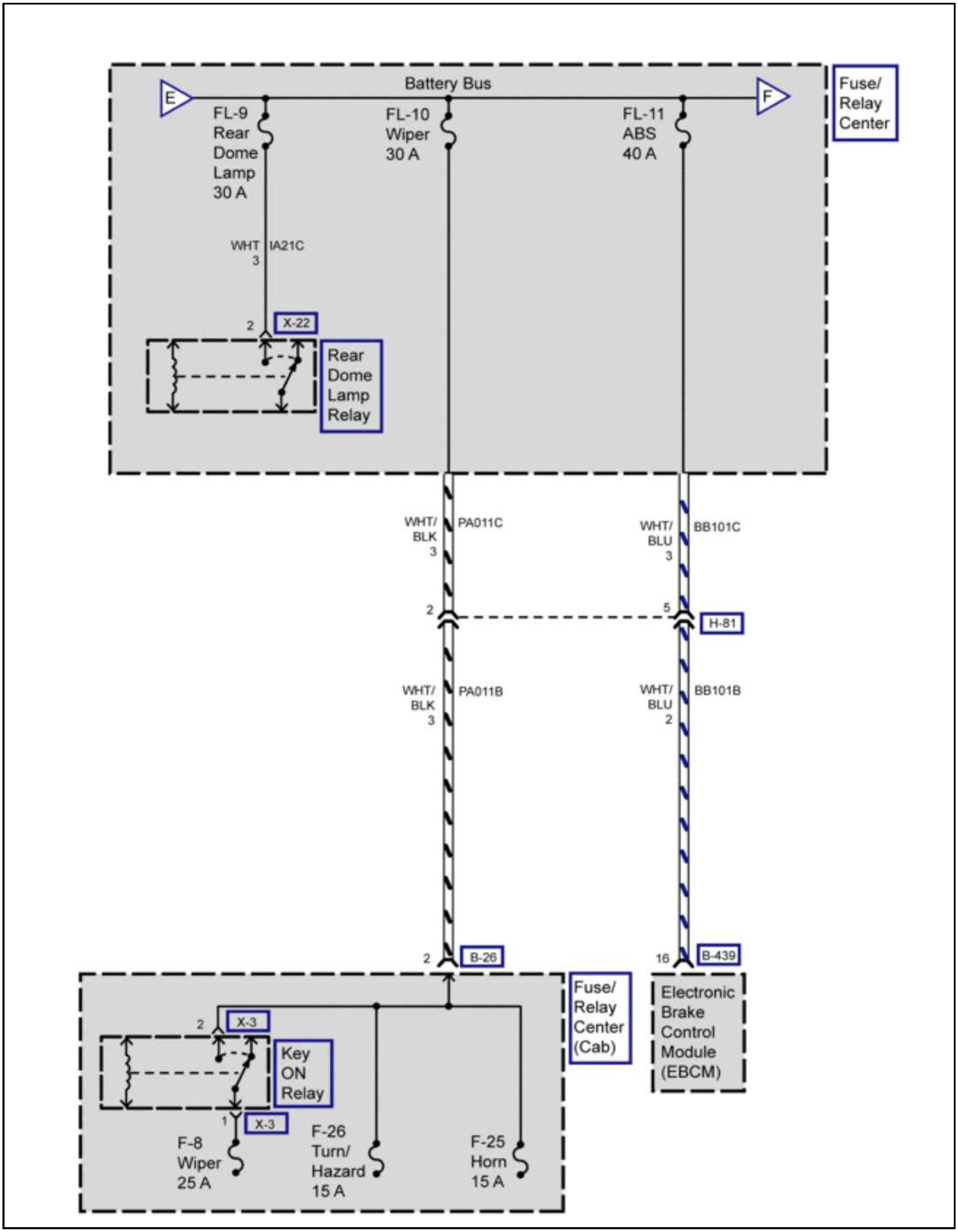
4891184

Fuses (Center) (FL-7, FL-8 Fuses)


Battery Bus
D
E
Fuse/
Relay
Center
FL-7
HVAC
50 A
FL-8
Headlamp
30 A
WHT/
BLK
5
PA006C
WHT/
RED
3
PA005C
2
H-82
6
H-81
WHT/
BLK
5
PA006B
WHT/
RED
3
PA005B
1
B-215
Blower
Relay
3
B-378
Splice
Pack
1
2
4
B-215
BRN
3
HA021B
WHT/
RED
3
AA042B
WHT/
RED
3
PA018B
S9
Blower
Motor
BRN
2
HA020B
1
B-217
5
B-26
Fuse/
Relay
Center
(Cab)
2
X-2
DRL
Relay
2
X-15
Headlamp
High
Relay
1
X-15
2
X-13
Headlamp
Low
Relay
6
B-26
1
X-13
F-30
Air
Conditioner
10 A
F-9
H/Lamp
LO(LH)
10 A
F-11
H/Lamp
LO(RH)
10 A
F-12
Brake
Lamps
10 A
F-14
H/Lamp
HI(LH)
10 A
F-15
H/Lamp
HI(RH)
10 A

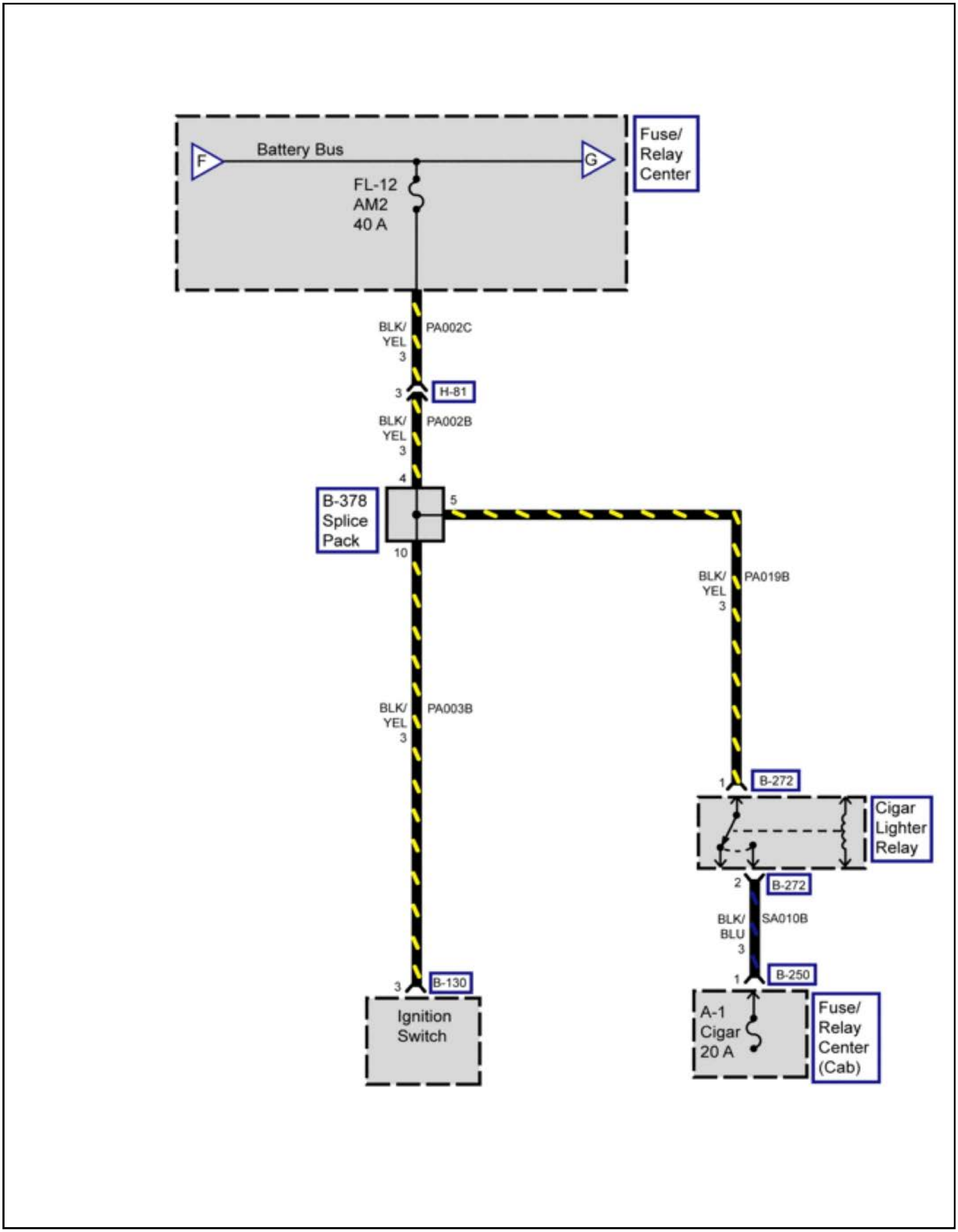
4891188

Fuses (Center) (FL-9, FL-10, FL-11 Fuses)


Battery Bus
E
F
Fuse/ Relay Center
FL-9 Rear Dome Lamp 30 A
FL-10 Wiper 30 A
FL-11 ABS 40 A
WHT 3 IA21C
2
X-22
Rear Dome Lamp Relay
WHT/ BLK 3 PA011C
WHT/ BLU 3 BB101C
2
5
H-81
WHT/ BLK 3 PA011B
WHT/ BLU 2 BB101B
2
B-26
16
B-439
Fuse/ Relay Center (Cab)
Electronic Brake Control Module (EBCM)
2
X-3
Key ON Relay
1
X-3
F-8 Wiper 25 A
F-26 Turn/ Hazard 15 A
F-25 Horn 15 A

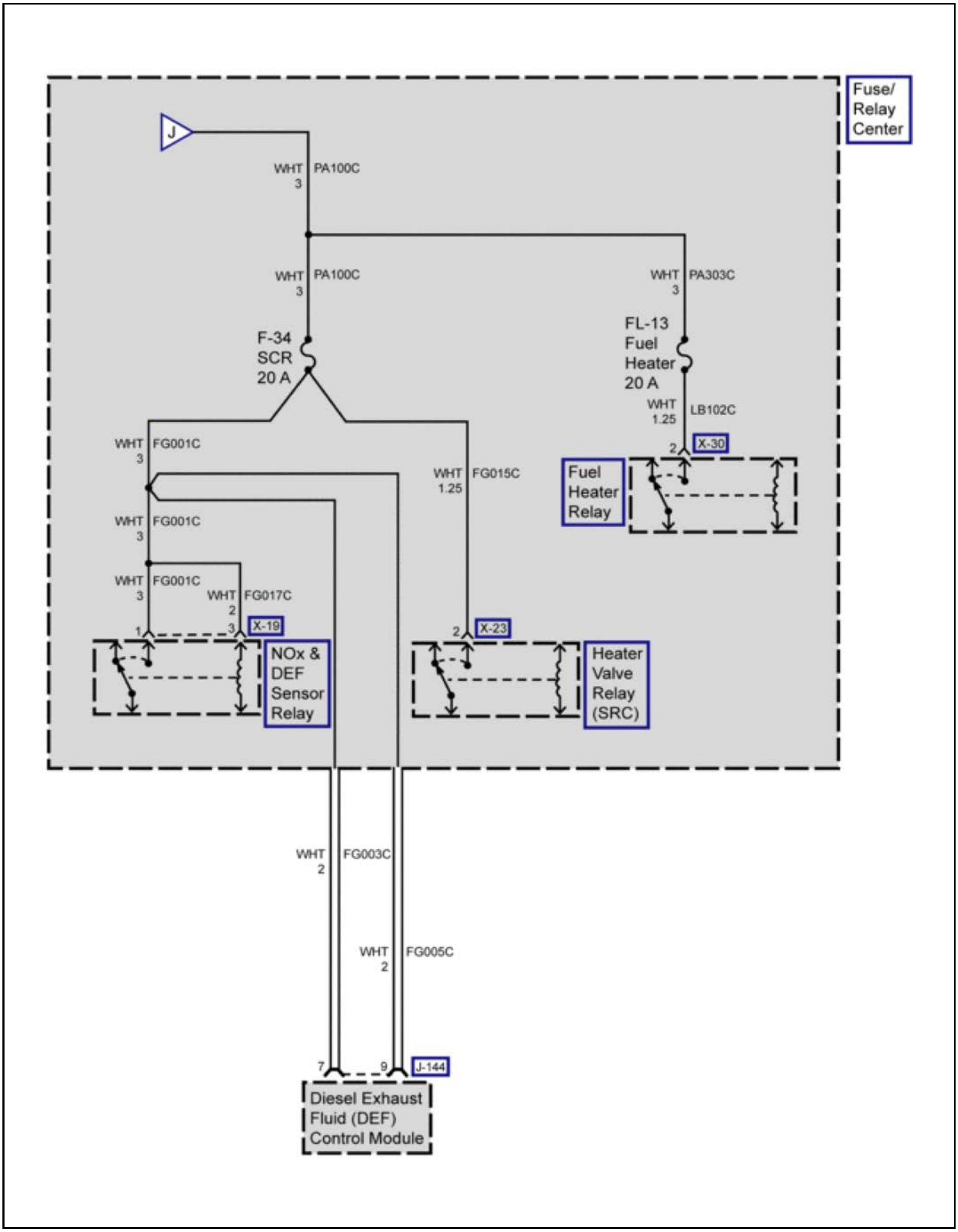
4891191

Fuses (Center) (FL-12 Fuse)


Battery Bus
F
G
Fuse/ Relay Center
FL-12
AM2
40 A
BLK/ YEL 3
PA002C
3
H-81
BLK/ YEL 3
PA002B
4
B-378 Splice Pack
5
10
BLK/ YEL 3
PA019B
BLK/ YEL 3
PA003B
1
B-272
Cigar Lighter Relay
2
B-272
BLK/ BLU 3
SA010B
1
B-250
A-1 Cigar 20 A
Fuse/ Relay Center (Cab)
3
B-130
Ignition Switch

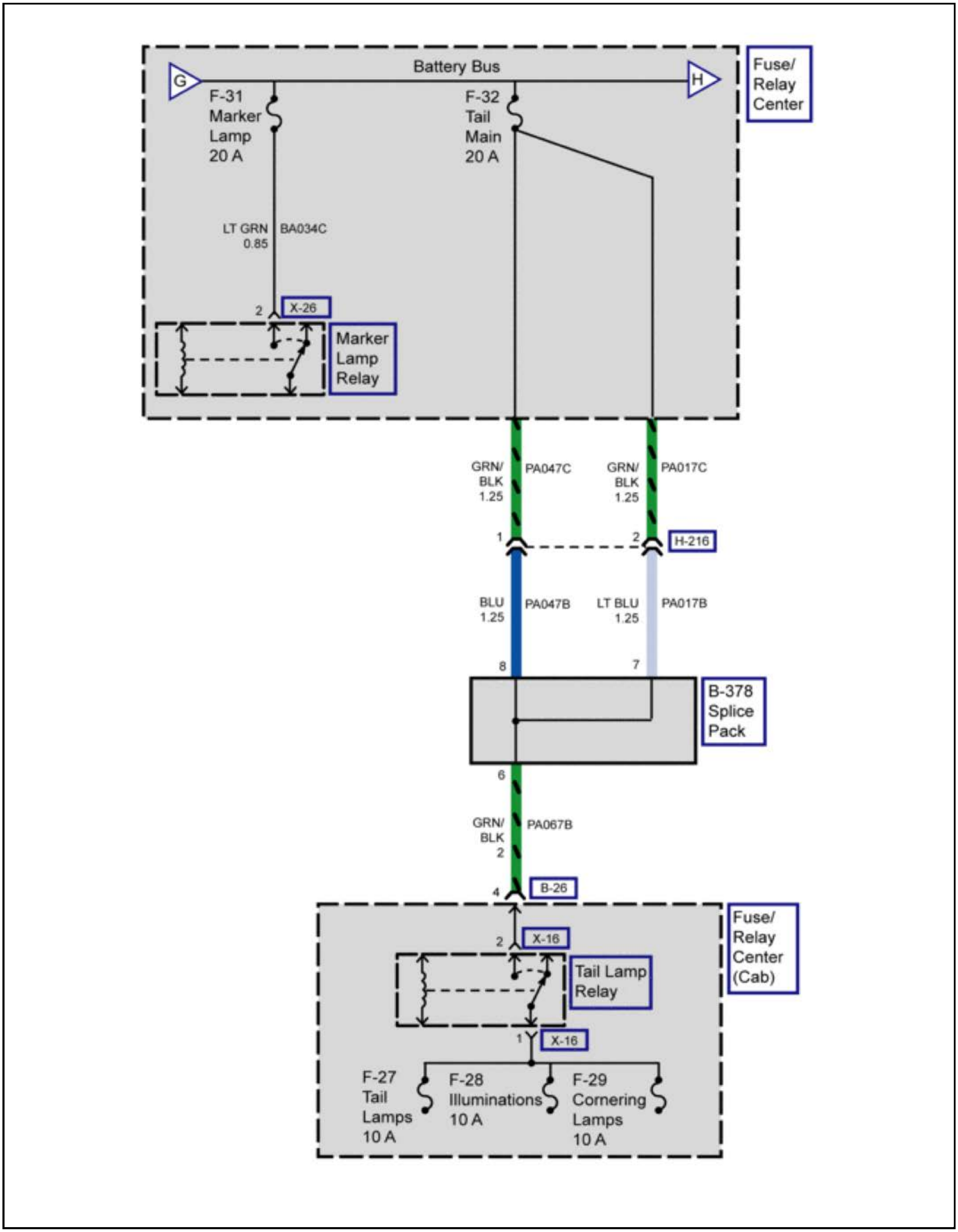
4891197

Fuses (Center) (F-31, F-32 Fuses)


Fuse/
Relay
Center
J
WHT 3 PA100C
WHT 3 PA100C
WHT 3 PA303C
F-34
SCR
20 A
FL-13
Fuel
Heater
20 A
WHT 1.25 LB102C
2 X-30
Fuel
Heater
Relay
WHT 3 FG001C
WHT 1.25 FG015C
WHT 3 FG001C
WHT 3 FG001C
WHT 2 FG017C
1 3 X-19
2 X-23
NOx &
DEF
Sensor
Relay
Heater
Valve
Relay
(SRC)
WHT 2 FG003C
WHT 2 FG005C
7 9 J-144
Diesel Exhaust
Fluid (DEF)
Control Module

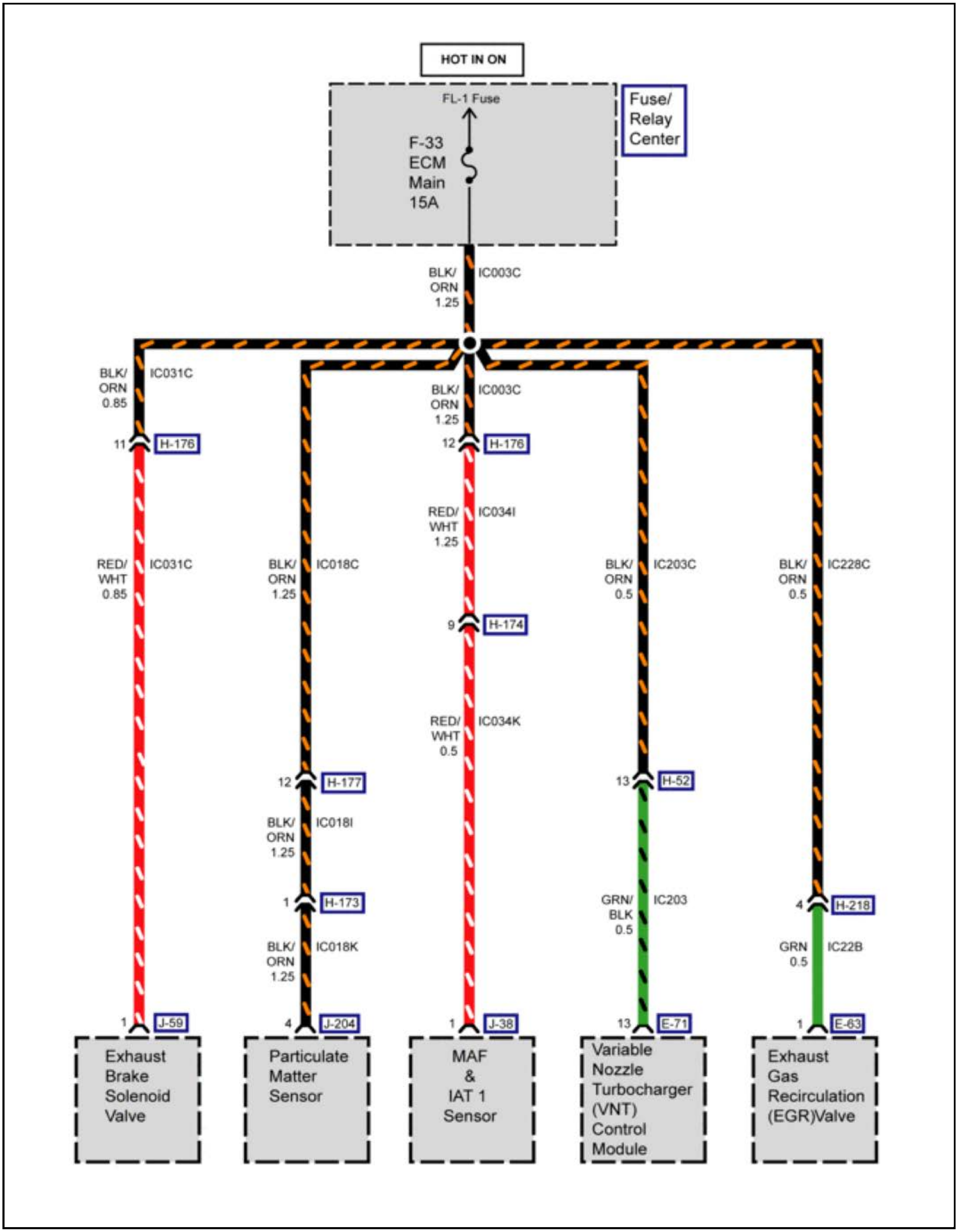
4891210

Fuses (Center) (F-31, F-32 Fuses)


Battery Bus
G
H
Fuse/ Relay Center
F-31 Marker Lamp 20 A
F-32 Tail Main 20 A
LT GRN 0.85
BA034C
2
X-26
Marker Lamp Relay
GRN/ BLK 1.25
PA047C
GRN/ BLK 1.25
PA017C
1
2
H-216
BLU 1.25
PA047B
LT BLU 1.25
PA017B
8
7
B-378 Splice Pack
6
GRN/ BLK 2
PA067B
4
B-26
2
X-16
Tail Lamp Relay
1
X-16
Fuse/ Relay Center (Cab)
F-27 Tail Lamps 10 A
F-28 Illuminations 10 A
F-29 Cornering Lamps 10 A

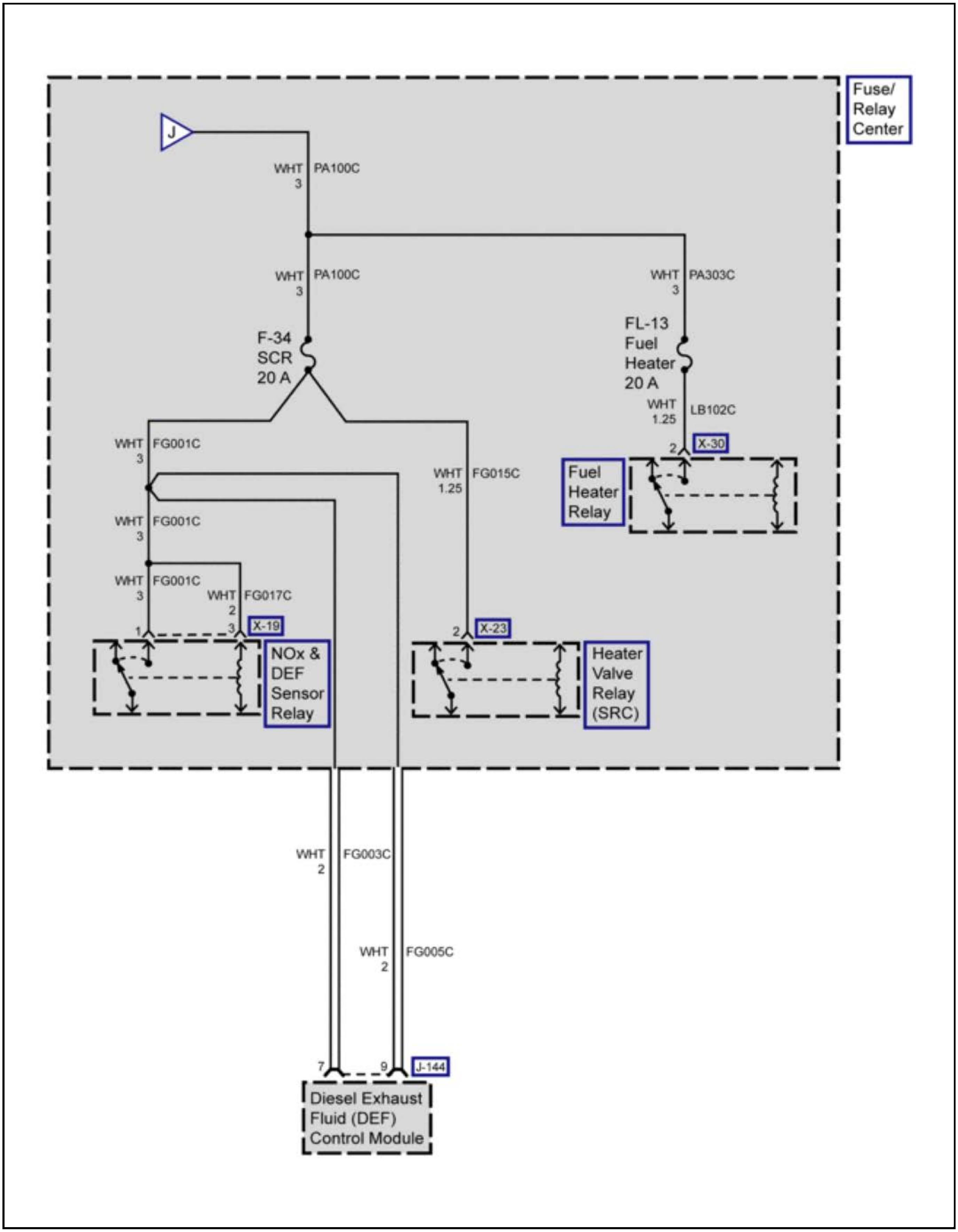
4891215

Fuses (Center) (F-33 Fuse)


HOT IN ON
FL-1 Fuse
F-33
ECM
Main
15A
Fuse/
Relay
Center
BLK/
ORN
1.25
IC003C
BLK/
ORN
0.85
IC031C
11
H-176
RED/
WHT
0.85
IC031C
1
J-59
Exhaust
Brake
Solenoid
Valve
BLK/
ORN
1.25
IC018C
12
H-177
BLK/
ORN
1.25
IC018I
1
H-173
BLK/
ORN
1.25
IC018K
4
J-204
Particulate
Matter
Sensor
BLK/
ORN
1.25
IC003C
12
H-176
RED/
WHT
1.25
IC034I
9
H-174
RED/
WHT
0.5
IC034K
1
J-38
MAF
&
IAT 1
Sensor
BLK/
ORN
0.5
IC203C
13
H-52
GRN/
BLK
0.5
IC203
13
E-71
Variable
Nozzle
Turbocharger
(VNT)
Control
Module
BLK/
ORN
0.5
IC228C
4
H-218
GRN
0.5
IC22B
1
E-63
Exhaust
Gas
Recirculation
(EGR)Valve

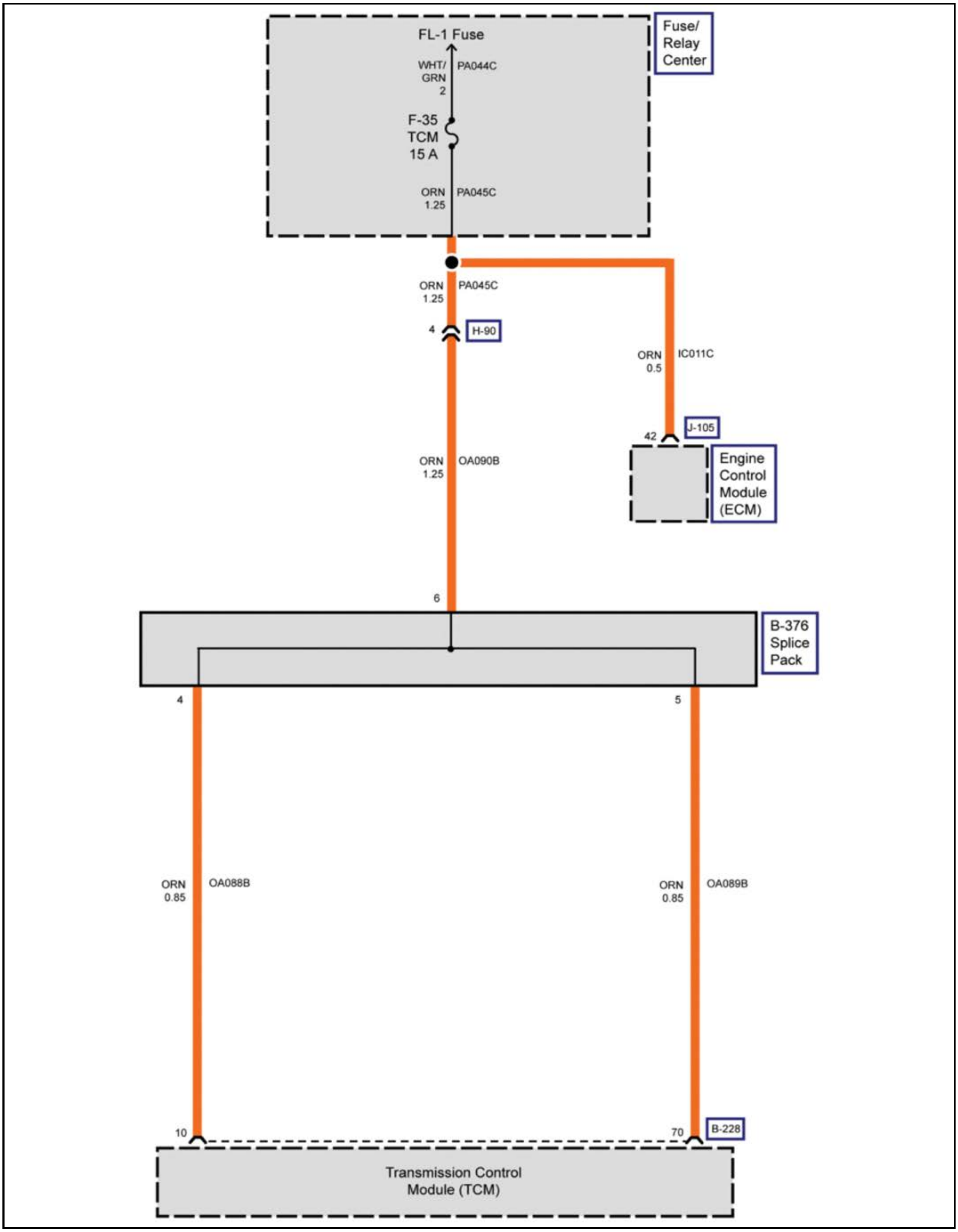
4891220

Fuses (Center) (F-34 Fuse)


Fuse/ Relay Center
J
WHT 3 PA100C
WHT 3 PA100C
WHT 3 PA303C
F-34 SCR 20 A
FL-13 Fuel Heater 20 A
WHT 1.25 LB102C
2 X-30
Fuel Heater Relay
WHT 3 FG001C
WHT 1.25 FG015C
WHT 3 FG001C
WHT 3 FG001C
WHT 2 FG017C
1 3 X-19
NOx & DEF Sensor Relay
2 X-23
Heater Valve Relay (SRC)
WHT 2 FG003C
WHT 2 FG005C
7 9 J-144
Diesel Exhaust Fluid (DEF) Control Module

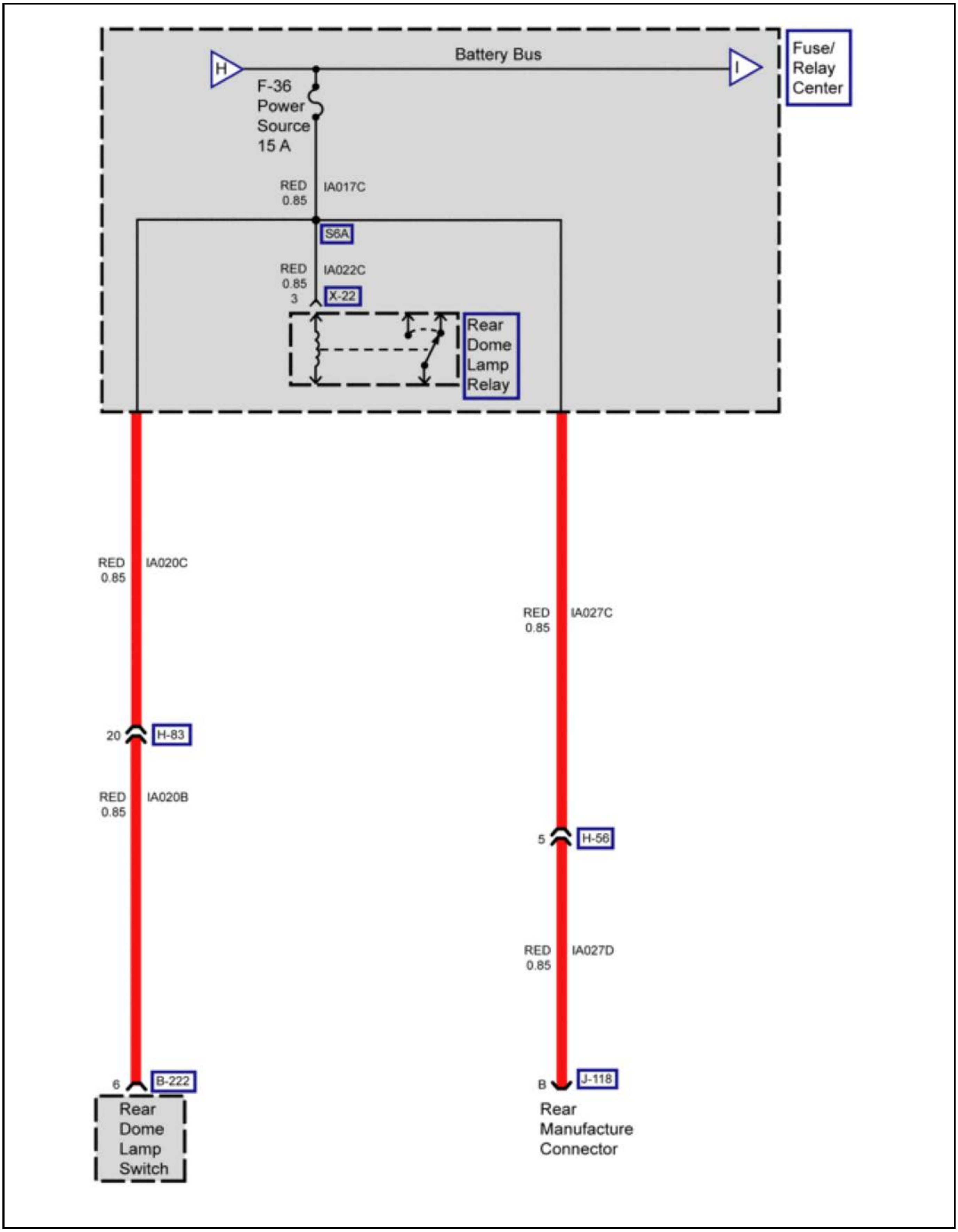
4891226

Fuses (Center) (F-35 Fuse)


FL-1 Fuse
WHT/ GRN 2
PA044C
F-35 TCM 15 A
ORN 1.25
PA045C
Fuse/ Relay Center
ORN 1.25
PA045C
4
H-90
ORN 0.5
IC011C
42
J-105
Engine Control Module (ECM)
ORN 1.25
OA090B
6
B-376 Splice Pack
4
5
ORN 0.85
OA088B
ORN 0.85
OA089B
10
70
B-228
Transmission Control Module (TCM)

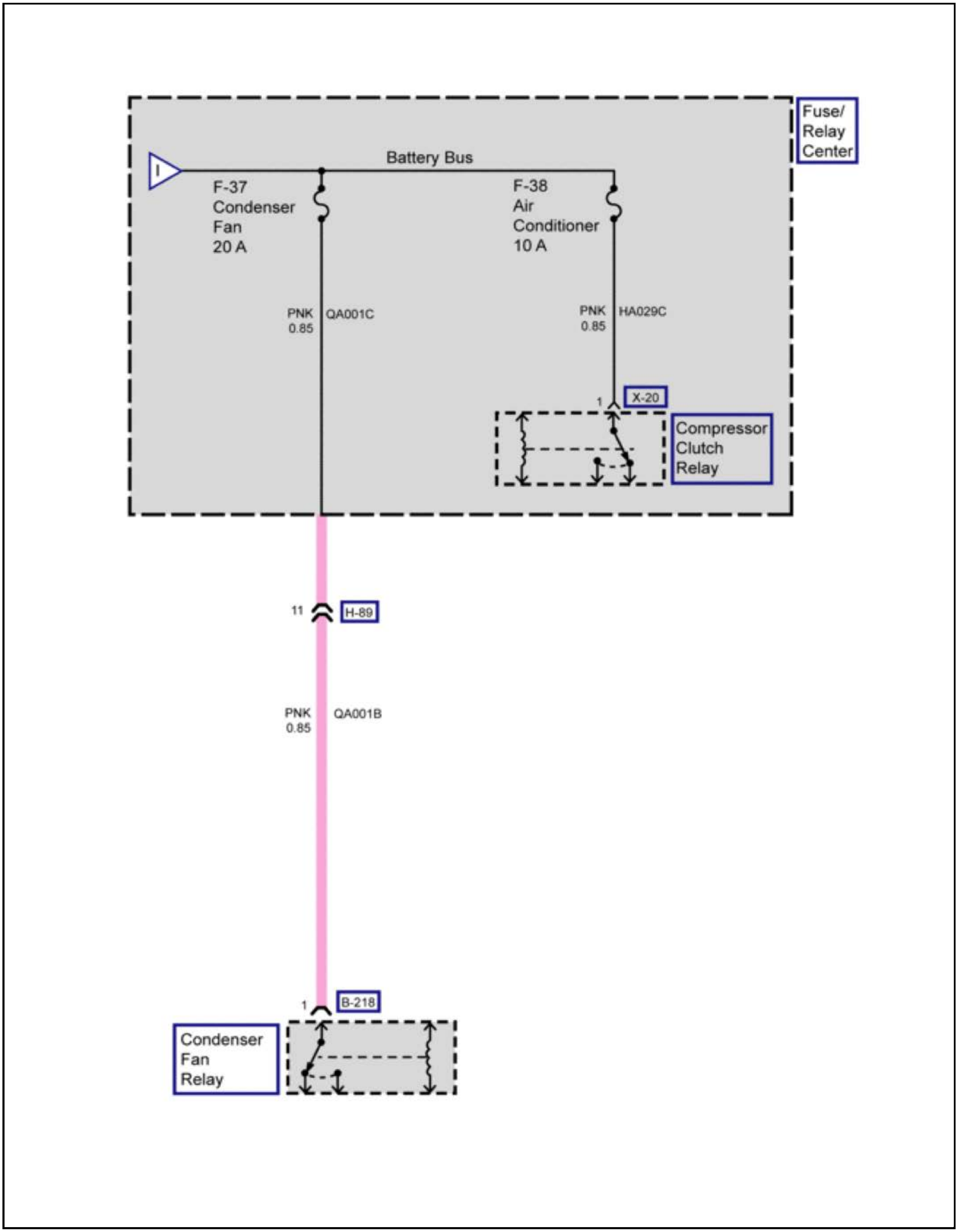
4891236

Fuses (Center) (F-36 Fuse)


Battery Bus
H
I
Fuse/
Relay
Center
F-36
Power
Source
15 A
RED
0.85
IA017C
S6A
RED
0.85
3
IA022C
X-22
Rear
Dome
Lamp
Relay
RED
0.85
IA020C
20
H-83
RED
0.85
IA020B
6
B-222
Rear
Dome
Lamp
Switch
RED
0.85
IA027C
5
H-56
RED
0.85
IA027D
B
J-118
Rear
Manufacture
Connector

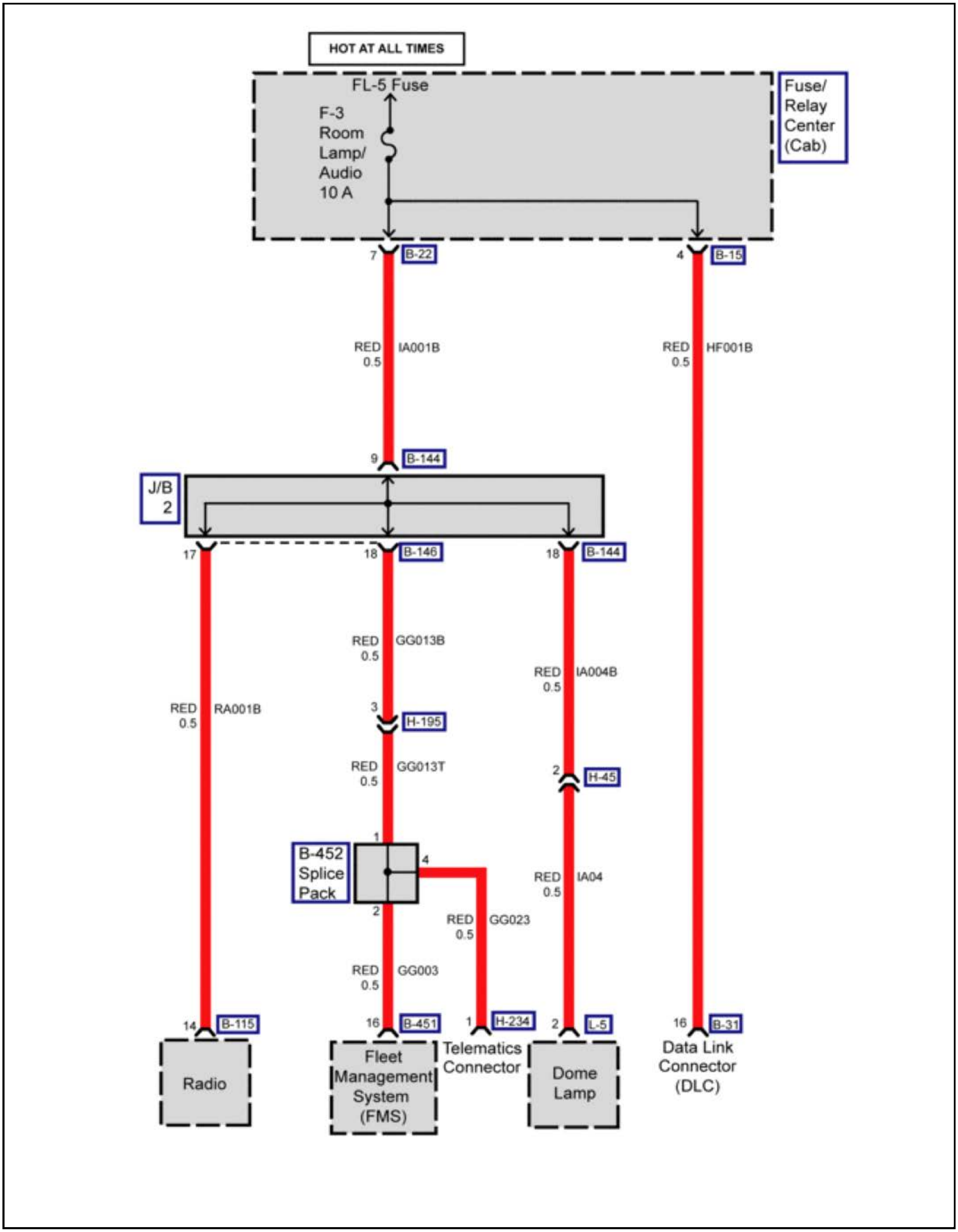
4891243

Fuses (Center) (F-37, F-38 Fuses)


Fuse/
Relay
Center
I
Battery Bus
F-37
Condenser
Fan
20 A
F-38
Air
Conditioner
10 A
PNK
0.85
QA001C
PNK
0.85
HA029C
1
X-20
Compressor
Clutch
Relay
11
H-89
PNK
0.85
QA001B
1
B-218
Condenser
Fan
Relay

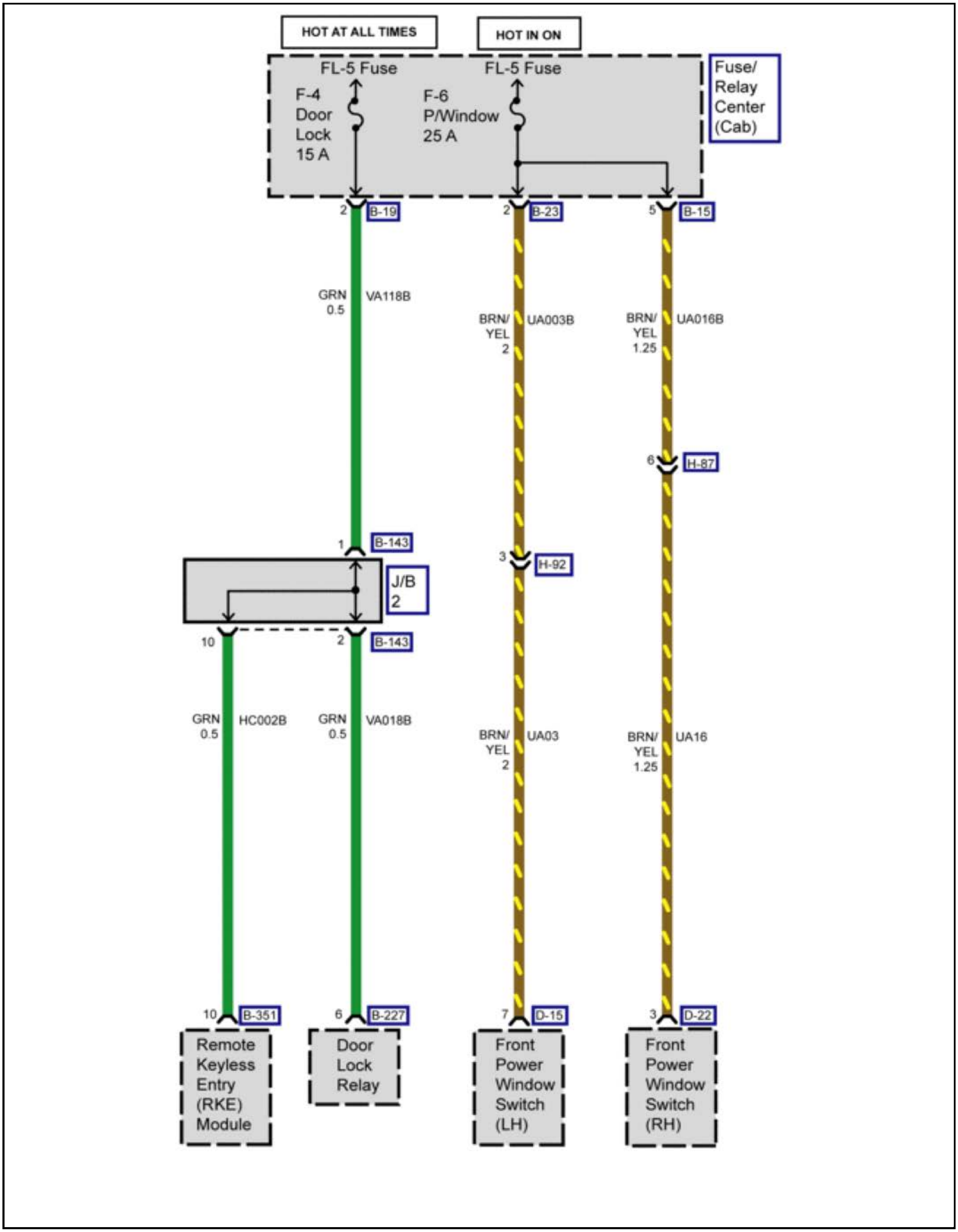
4891248

Fuses (Cab) (F-3 Fuse)


HOT AT ALL TIMES
FL-5 Fuse
F-3 Room Lamp/ Audio 10 A
Fuse/ Relay Center (Cab)
7
B-22
4
B-15
RED 0.5
IA001B
RED 0.5
HF001B
9
B-144
J/B 2
17
18
B-146
18
B-144
RED 0.5
GG013B
RED 0.5
IA004B
RED 0.5
RA001B
3
H-195
RED 0.5
GG013T
2
H-45
1
B-452 Splice Pack
4
RED 0.5
IA04
2
RED 0.5
GG023
RED 0.5
GG003
14
B-115
16
B-451
1
H-234
2
L-5
16
B-31
Radio
Fleet Management System (FMS)
Telematics Connector
Dome Lamp
Data Link Connector (DLC)

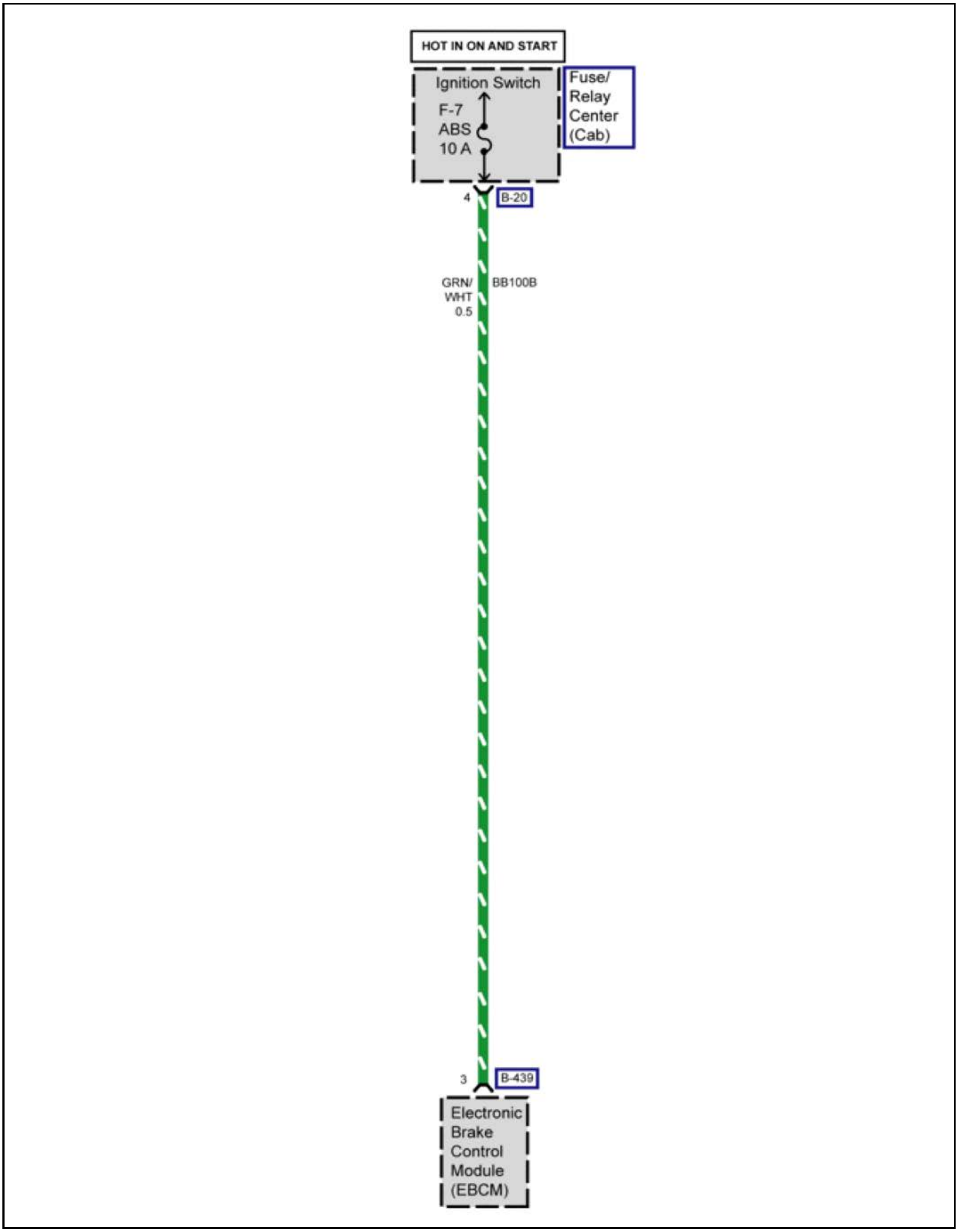
4891261

Fuses (Cab) (F-4, F-6 Fuses)


HOT AT ALL TIMES
HOT IN ON
FL-5 Fuse
FL-5 Fuse
F-4 Door Lock 15 A
F-6 P/Window 25 A
Fuse/ Relay Center (Cab)
2 B-19
2 B-23
5 B-15
GRN 0.5
VA118B
BRN/ YEL 2
UA003B
BRN/ YEL 1.25
UA016B
6 H-87
1 B-143
3 H-92
J/B 2
10
2 B-143
GRN 0.5
HC002B
GRN 0.5
VA018B
BRN/ YEL 2
UA03
BRN/ YEL 1.25
UA16
10 B-351
6 B-227
7 D-15
3 D-22
Remote Keyless Entry (RKE) Module
Door Lock Relay
Front Power Window Switch (LH)
Front Power Window Switch (RH)

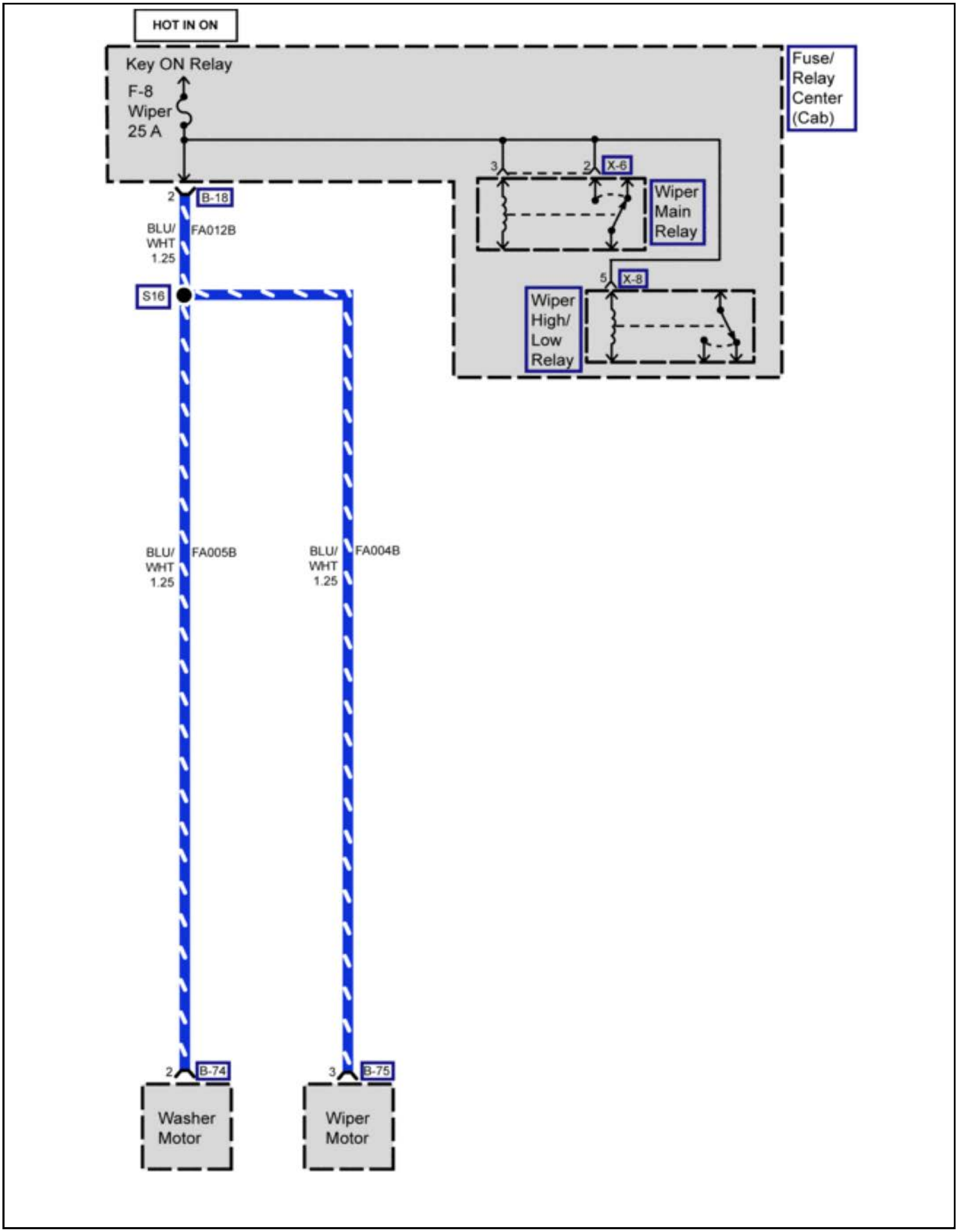
4891289

Fuses (Cab) (F-7 Fuse)


HOT IN ON AND START
Ignition Switch
F-7
ABS
10 A
Fuse/
Relay
Center
(Cab)
4
B-20
GRN/
WHT
0.5
BB100B
3
B-439
Electronic
Brake
Control
Module
(EBCM)

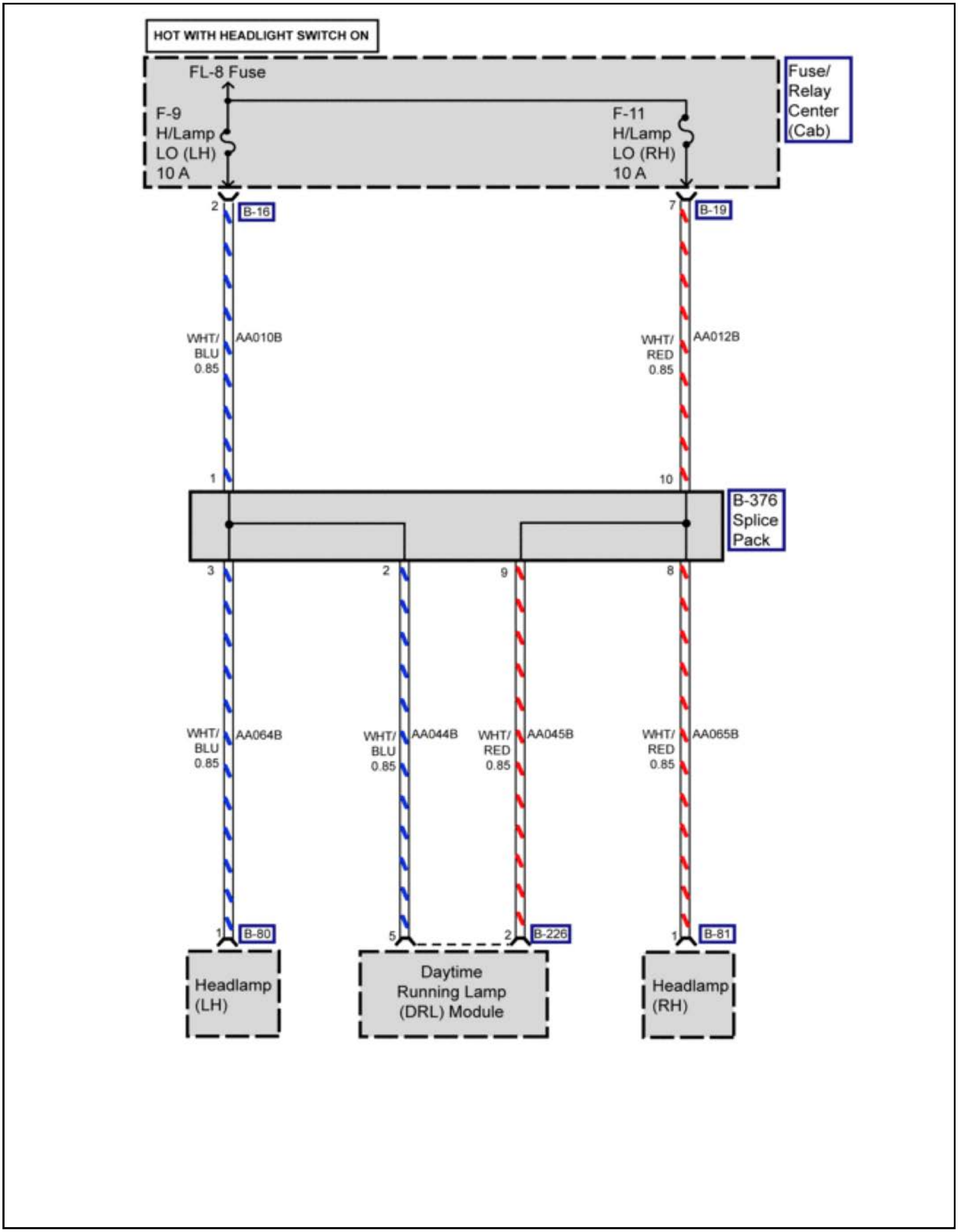
4891311

Fuses (Cab) (F-8 Fuse)


HOT IN ON
Key ON Relay
F-8
Wiper
25 A
Fuse/
Relay
Center
(Cab)
3
2
X-6
Wiper
Main
Relay
5
X-8
Wiper
High/
Low
Relay
2
B-18
BLU/
WHT
1.25
FA012B
S16
BLU/
WHT
1.25
FA005B
BLU/
WHT
1.25
FA004B
2
B-74
3
B-75
Washer
Motor
Wiper
Motor

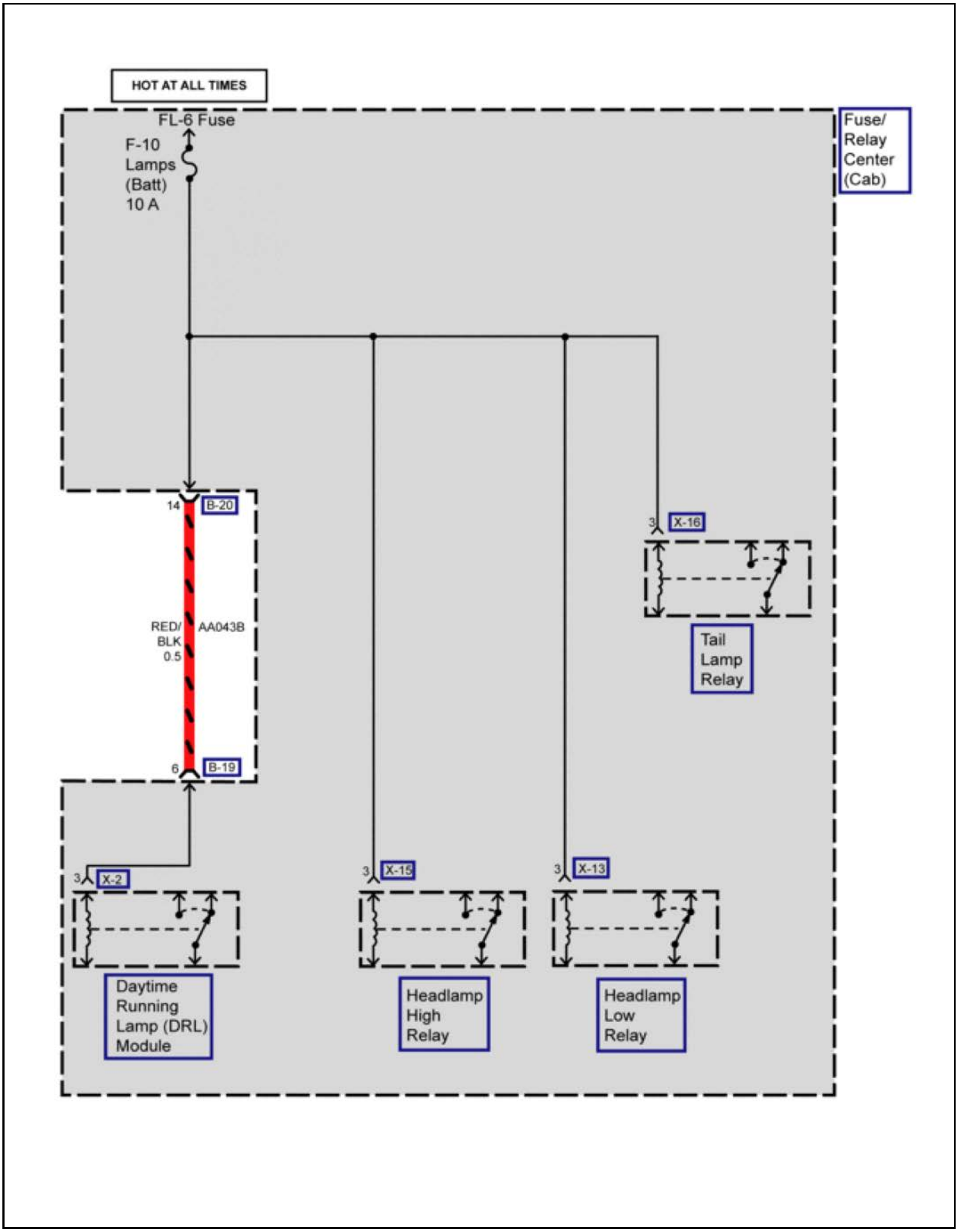
4891347

Fuses (Cab) (F-9, F-11 Fuses)


HOT WITH HEADLIGHT SWITCH ON
FL-8 Fuse
F-9
H/Lamp
LO (LH)
10 A
F-11
H/Lamp
LO (RH)
10 A
Fuse/
Relay
Center
(Cab)
2
B-16
7
B-19
WHT/
BLU
0.85
AA010B
WHT/
RED
0.85
AA012B
1
10
B-376
Splice
Pack
3
2
9
8
WHT/
BLU
0.85
AA064B
WHT/
BLU
0.85
AA044B
WHT/
RED
0.85
AA045B
WHT/
RED
0.85
AA065B
1
B-80
5
2
B-226
1
B-81
Headlamp
(LH)
Daytime
Running Lamp
(DRL) Module
Headlamp
(RH)

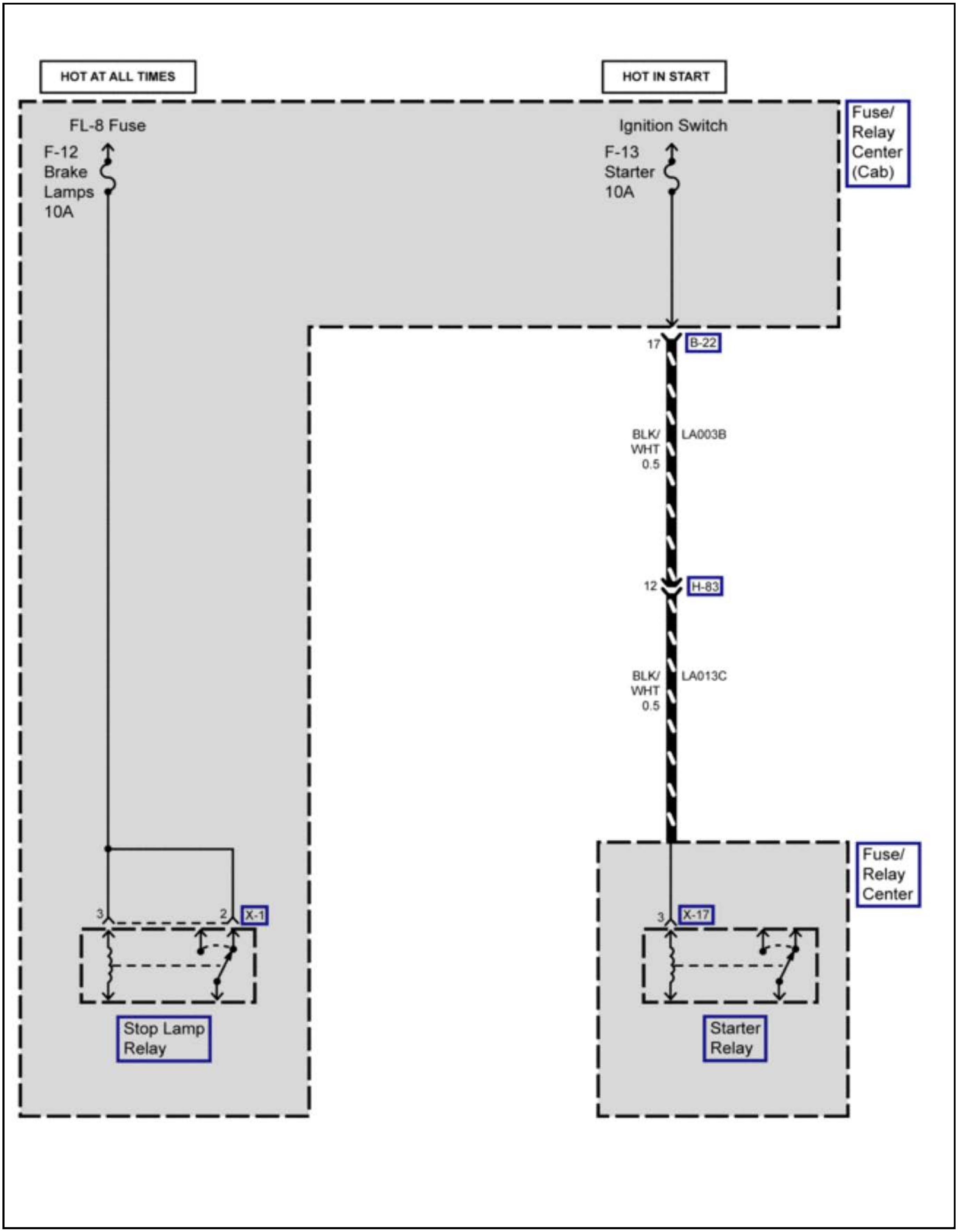
4891367

Fuses (Cab) (F-10 Fuse)


HOT AT ALL TIMES
FL-6 Fuse
F-10
Lamps
(Batt)
10 A
Fuse/
Relay
Center
(Cab)
14
B-20
RED/
BLK
0.5
AA043B
6
B-19
3
X-16
Tail
Lamp
Relay
3
X-2
Daytime
Running
Lamp (DRL)
Module
3
X-15
Headlamp
High
Relay
3
X-13
Headlamp
Low
Relay

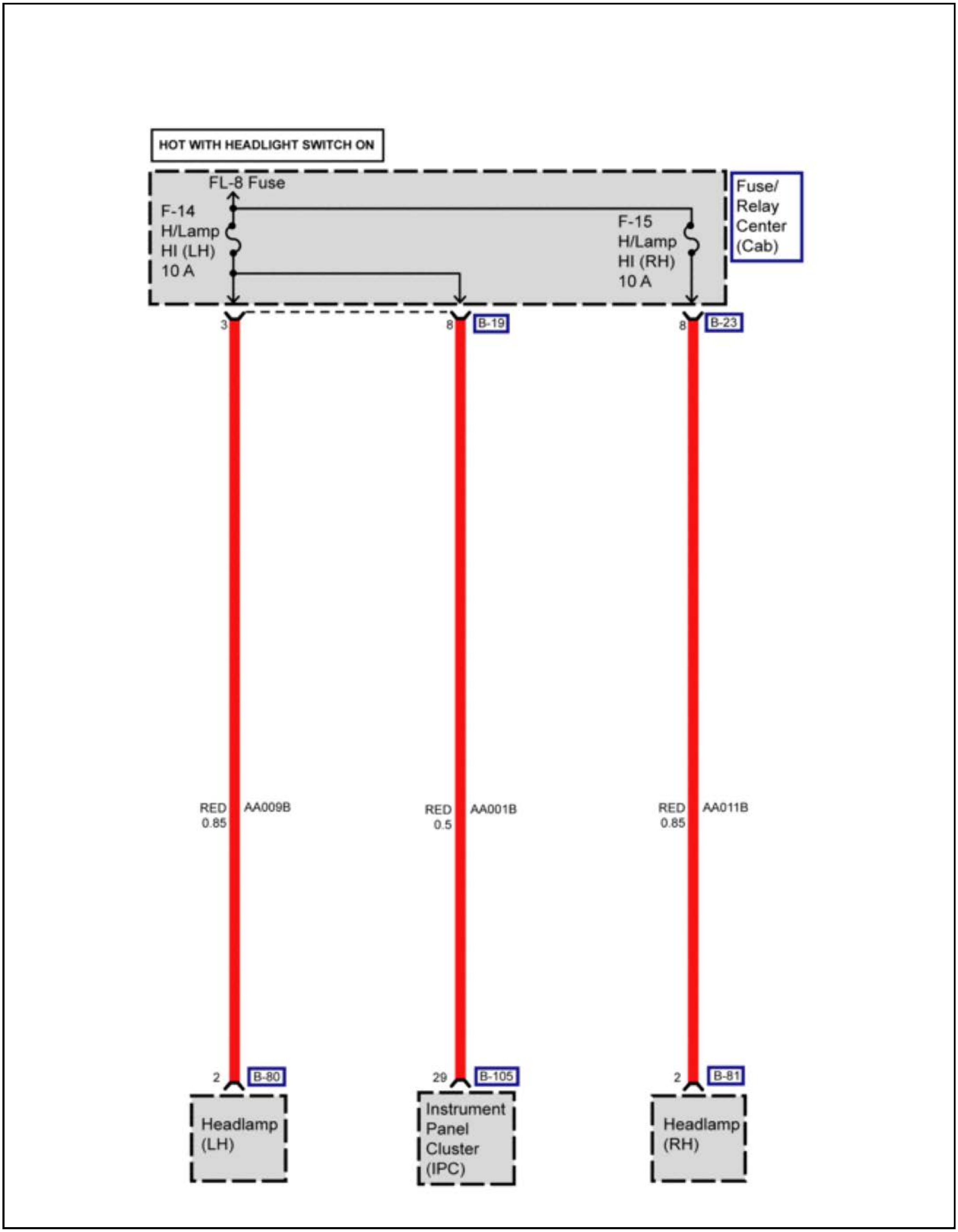
4891380

Fuses (Cab) (F-12, F-13 Fuses)


HOT AT ALL TIMES
HOT IN START
FL-8 Fuse
F-12
Brake
Lamps
10A
Ignition Switch
F-13
Starter
10A
Fuse/
Relay
Center
(Cab)
17
B-22
BLK/
WHT
0.5
LA003B
12
H-83
BLK/
WHT
0.5
LA013C
3
2
X-1
Stop Lamp
Relay
3
X-17
Fuse/
Relay
Center
Starter
Relay

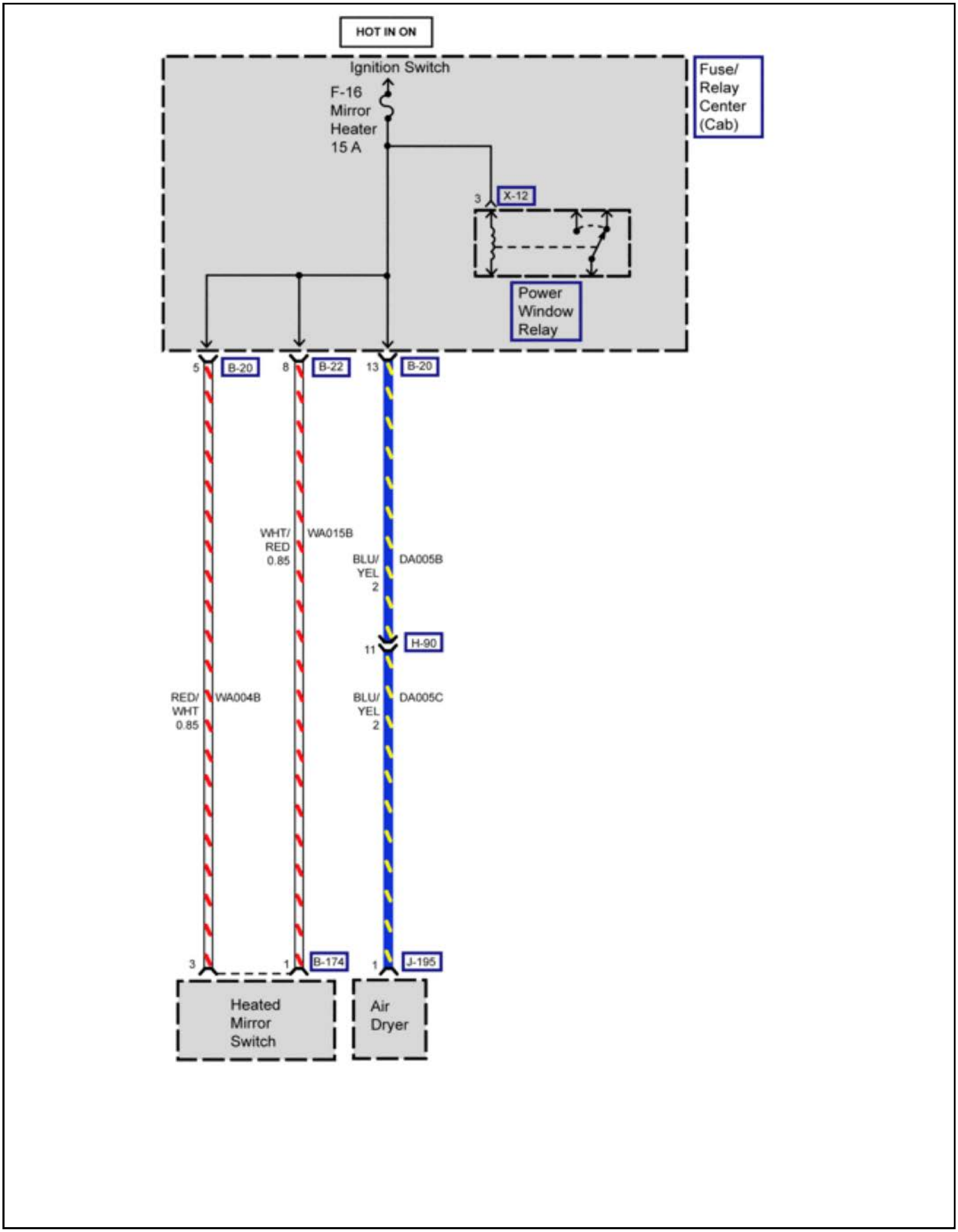
4891398

Fuses (Cab) (F-14, F-15 Fuses)


HOT WITH HEADLIGHT SWITCH ON
FL-8 Fuse
F-14
H/Lamp
HI (LH)
10 A
F-15
H/Lamp
HI (RH)
10 A
Fuse/
Relay
Center
(Cab)
3
8
B-19
8
B-23
RED
0.85
AA009B
RED
0.5
AA001B
RED
0.85
AA011B
2
B-80
29
B-105
2
B-81
Headlamp
(LH)
Instrument
Panel
Cluster
(IPC)
Headlamp
(RH)

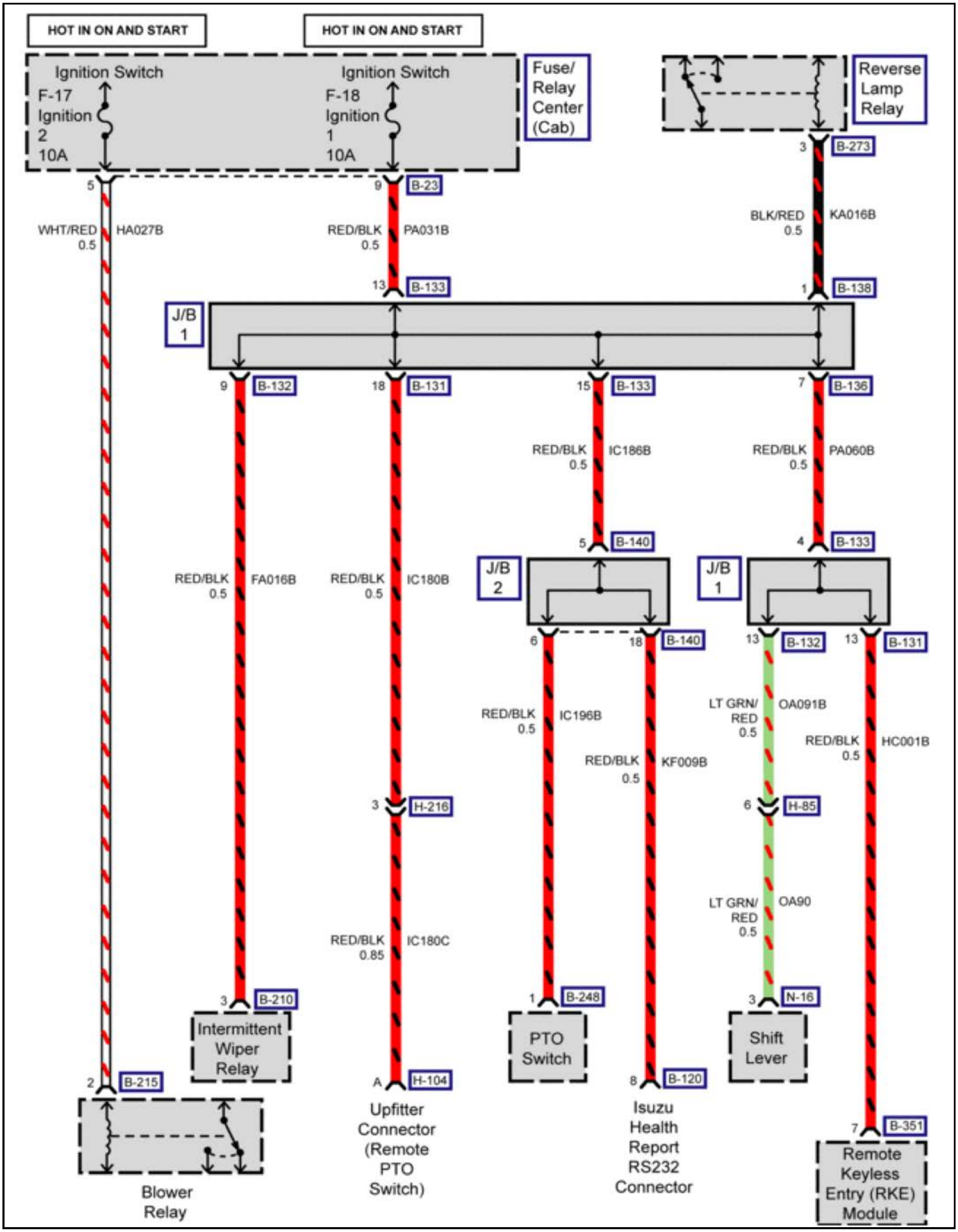
4891419

Fuses (Cab) (F-16 Fuse)


HOT IN ON
Ignition Switch
F-16
Mirror
Heater
15 A
Fuse/
Relay
Center
(Cab)
3
X-12
Power
Window
Relay
5
B-20
8
B-22
13
B-20
WHT/
RED
0.85
WA015B
BLU/
YEL
2
DA005B
11
H-90
RED/
WHT
0.85
WA004B
BLU/
YEL
2
DA005C
3
1
B-174
1
J-195
Heated
Mirror
Switch
Air
Dryer

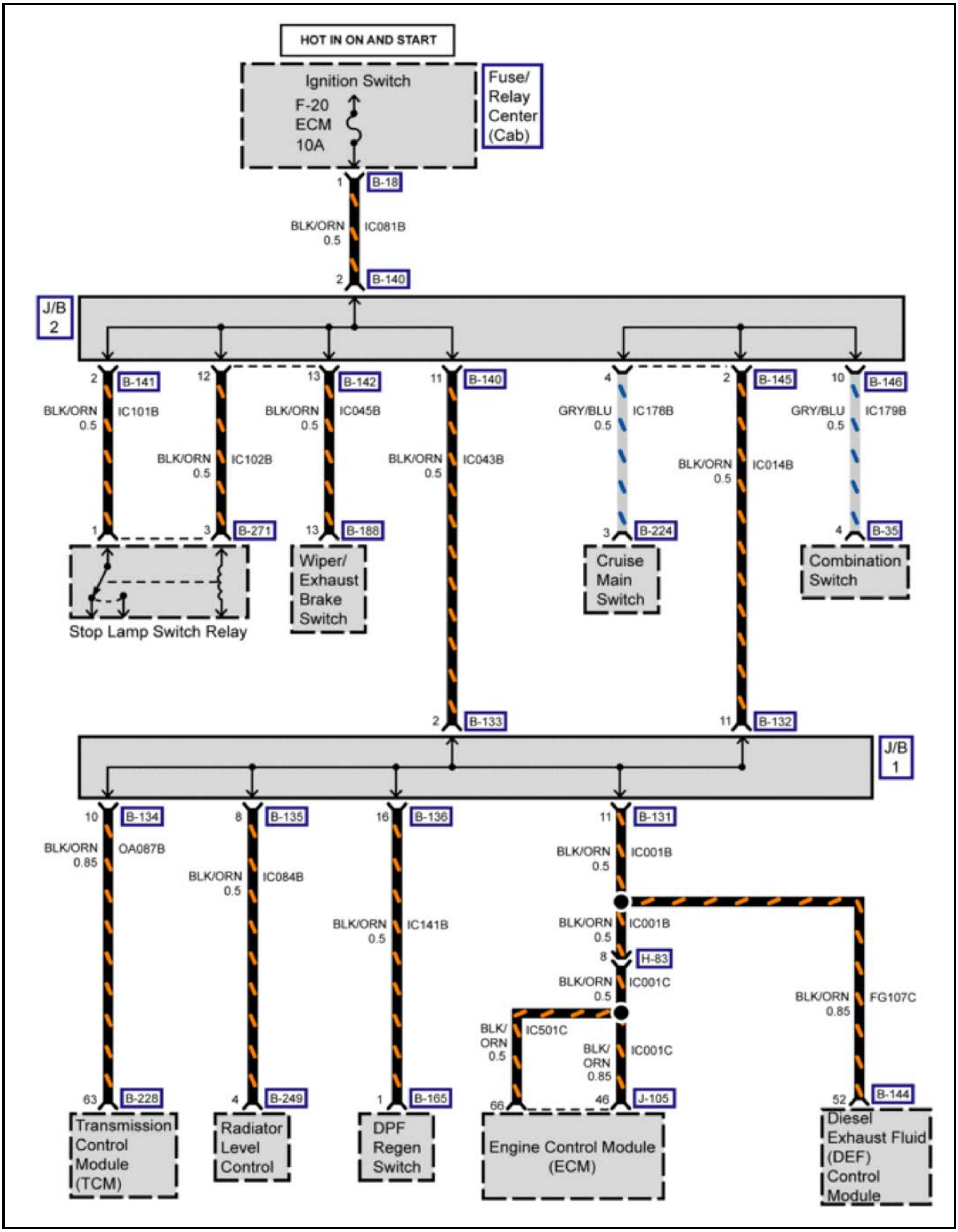
4891447

Fuses (Cab) (F-17, F-18 Fuses)


HOT IN ON AND START
HOT IN ON AND START
Ignition Switch
F-17 Ignition 2 10A
Ignition Switch
F-18 Ignition 1 10A
Fuse/ Relay Center (Cab)
Reverse Lamp Relay
5
9 B-23
3 B-273
WHT/RED 0.5 HA027B
RED/BLK 0.5 PA031B
BLK/RED 0.5 KA016B
13 B-133
1 B-138
J/B 1
9 B-132
18 B-131
15 B-133
7 B-136
RED/BLK 0.5 IC186B
RED/BLK 0.5 PA060B
5 B-140
4 B-133
RED/BLK 0.5 FA016B
RED/BLK 0.5 IC180B
J/B 2
J/B 1
6
18 B-140
13 B-132
13 B-131
RED/BLK 0.5 IC196B
LT GRN/ RED 0.5 OA091B
RED/BLK 0.5 HC001B
RED/BLK 0.5 KF009B
3 H-216
6 H-85
LT GRN/ RED 0.5 OA90
RED/BLK 0.85 IC180C
3 B-210
1 B-248
3 N-16
Intermittent Wiper Relay
PTO Switch
Shift Lever
2 B-215
A H-104
8 B-120
7 B-351
Blower Relay
Upfitter Connector (Remote PTO Switch)
Isuzu Health Report RS232 Connector
Remote Keyless Entry (RKE) Module

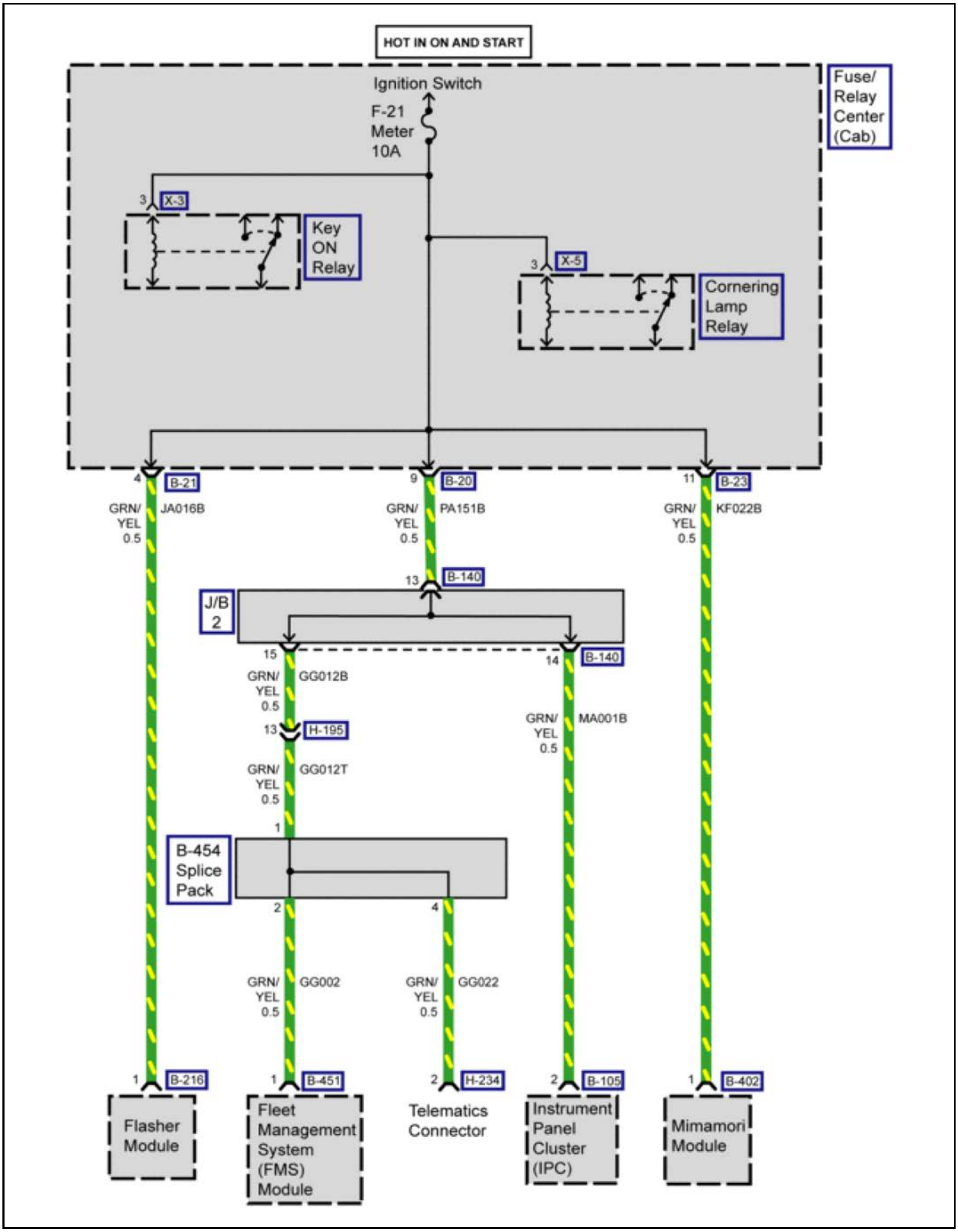
4891457

Fuses (Cab) (F-20 Fuse)


HOT IN ON AND START
Ignition Switch
F-20
ECM
10A
Fuse/
Relay
Center
(Cab)
1 B-18
BLK/ORN 0.5 IC081B
2 B-140
J/B 2
2 B-141
BLK/ORN 0.5 IC101B
12
BLK/ORN 0.5 IC102B
13 B-142
BLK/ORN 0.5 IC045B
11 B-140
BLK/ORN 0.5 IC043B
4
GRY/BLU 0.5 IC178B
2 B-145
BLK/ORN 0.5 IC014B
10 B-146
GRY/BLU 0.5 IC179B
1
3 B-271
13 B-188
3 B-224
4 B-35
Stop Lamp Switch Relay
Wiper/
Exhaust
Brake
Switch
Cruise
Main
Switch
Combination
Switch
2 B-133
11 B-132
J/B 1
10 B-134
BLK/ORN 0.85 OA087B
8 B-135
BLK/ORN 0.5 IC084B
16 B-136
BLK/ORN 0.5 IC141B
11 B-131
BLK/ORN 0.5 IC001B
BLK/ORN 0.5 IC001B
8 H-83
BLK/ORN 0.5 IC001C
BLK/ORN 0.5 IC501C
BLK/ORN 0.85 IC001C
BLK/ORN 0.85 FG107C
63 B-228
4 B-249
1 B-165
66
46 J-105
52 B-144
Transmission
Control
Module
(TCM)
Radiator
Level
Control
DPF
Regen
Switch
Engine Control Module
(ECM)
Diesel
Exhaust Fluid
(DEF)
Control
Module

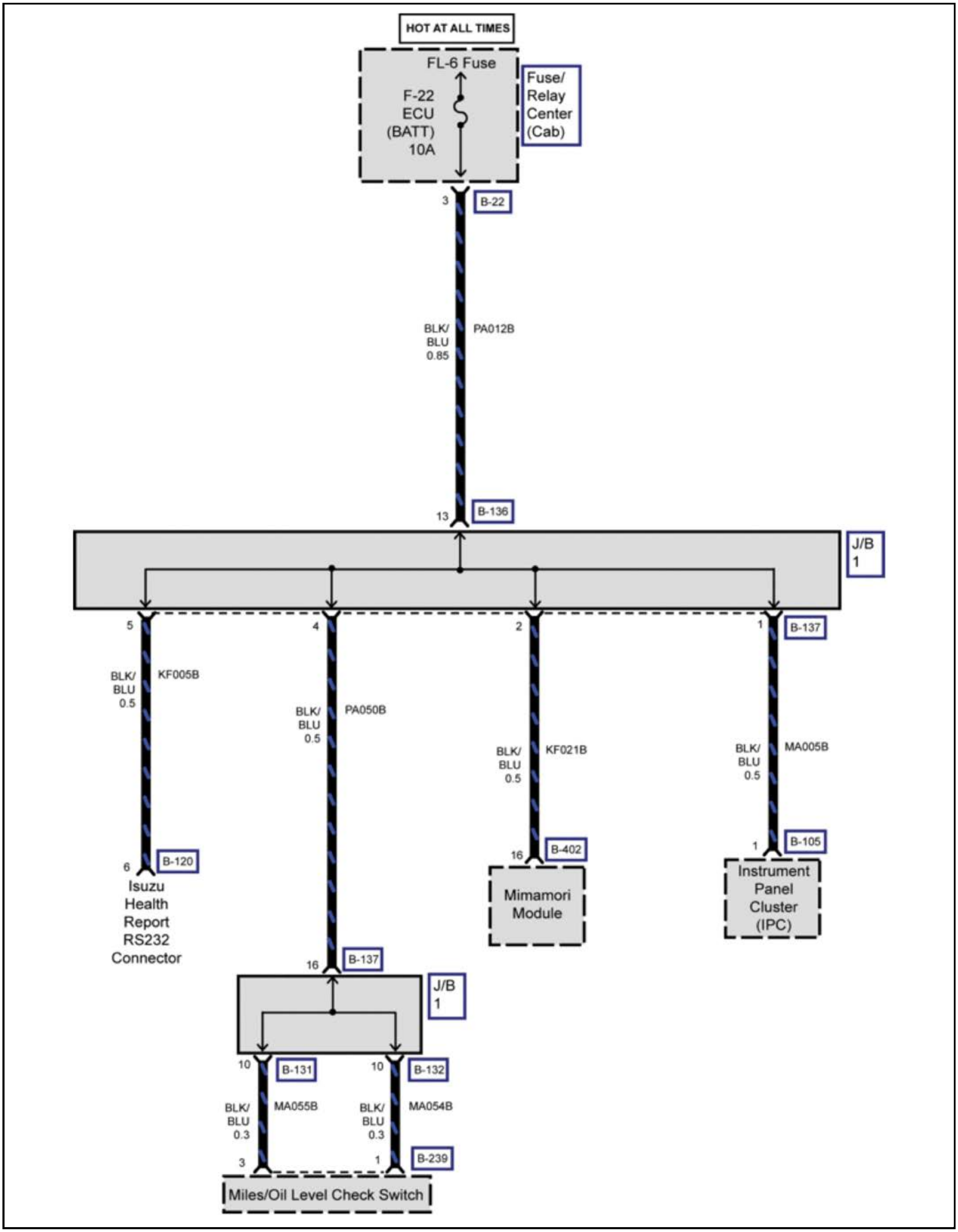
4891465

Fuses (Cab) (F-21 Fuse)


HOT IN ON AND START
Ignition Switch
F-21
Meter
10A
Fuse/
Relay
Center
(Cab)
3
X-3
Key
ON
Relay
3
X-5
Cornering
Lamp
Relay
4
B-21
GRN/
YEL
0.5
JA016B
9
B-20
GRN/
YEL
0.5
PA151B
11
B-23
GRN/
YEL
0.5
KF022B
13
B-140
J/B
2
15
GRN/
YEL
0.5
GG012B
14
B-140
13
H-195
GRN/
YEL
0.5
GG012T
GRN/
YEL
0.5
MA001B
1
B-454
Splice
Pack
2
4
GRN/
YEL
0.5
GG002
GRN/
YEL
0.5
GG022
1
B-216
1
B-451
2
H-234
2
B-105
1
B-402
Flasher
Module
Fleet
Management
System
(FMS)
Module
Telematics
Connector
Instrument
Panel
Cluster
(IPC)
Mimamori
Module

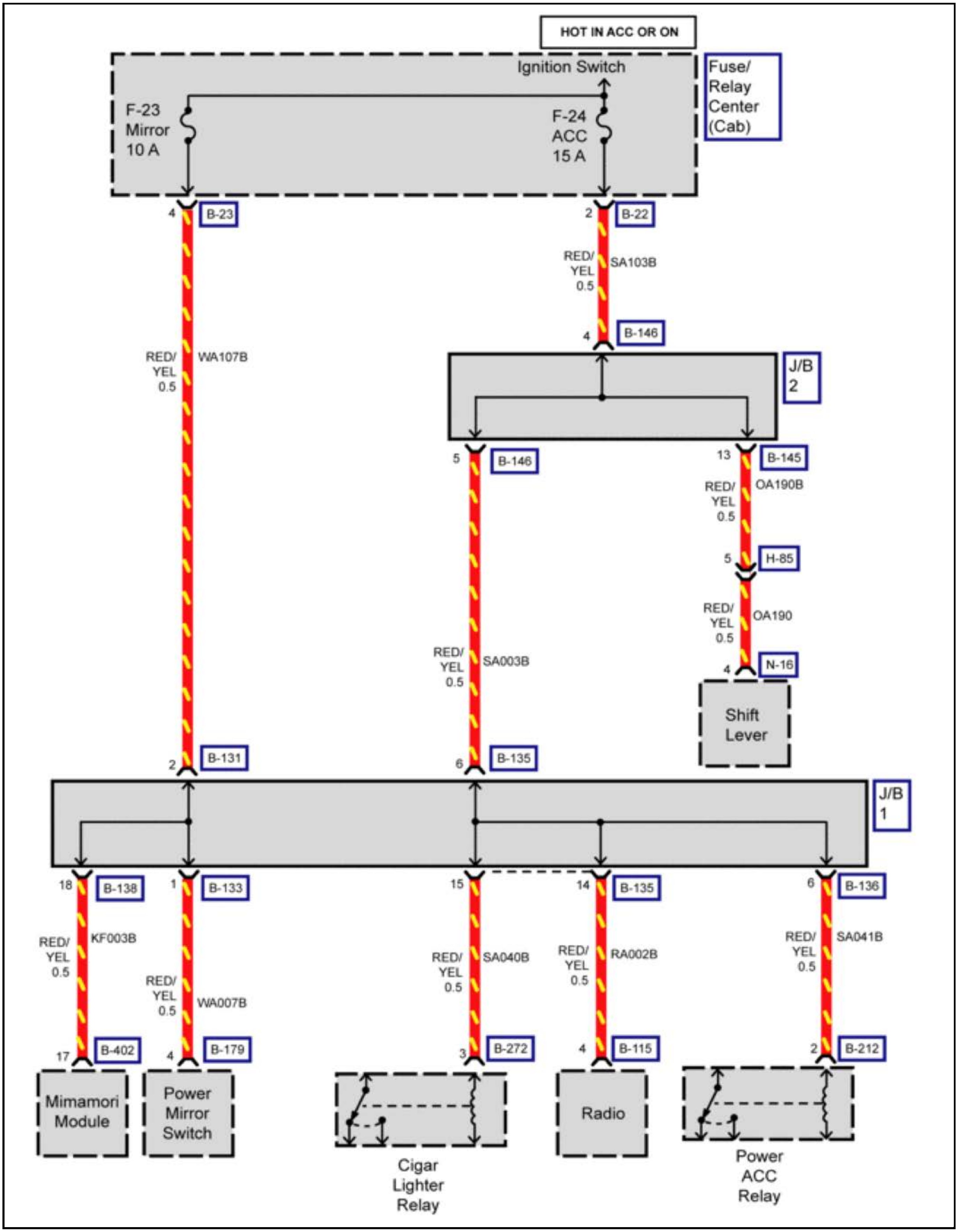
4891467

Fuses (Cab) (F-22 Fuse)


HOT AT ALL TIMES
FL-6 Fuse
F-22
ECU
(BATT)
10A
Fuse/
Relay
Center
(Cab)
3
B-22
BLK/
BLU
0.85
PA012B
13
B-136
J/B
1
5
4
2
1
B-137
BLK/
BLU
0.5
KF005B
BLK/
BLU
0.5
PA050B
BLK/
BLU
0.5
KF021B
BLK/
BLU
0.5
MA005B
6
B-120
Isuzu
Health
Report
RS232
Connector
16
B-402
Mimamori
Module
1
B-105
Instrument
Panel
Cluster
(IPC)
16
B-137
J/B
1
10
B-131
10
B-132
BLK/
BLU
0.3
MA055B
BLK/
BLU
0.3
MA054B
3
1
B-239
Miles/Oil Level Check Switch

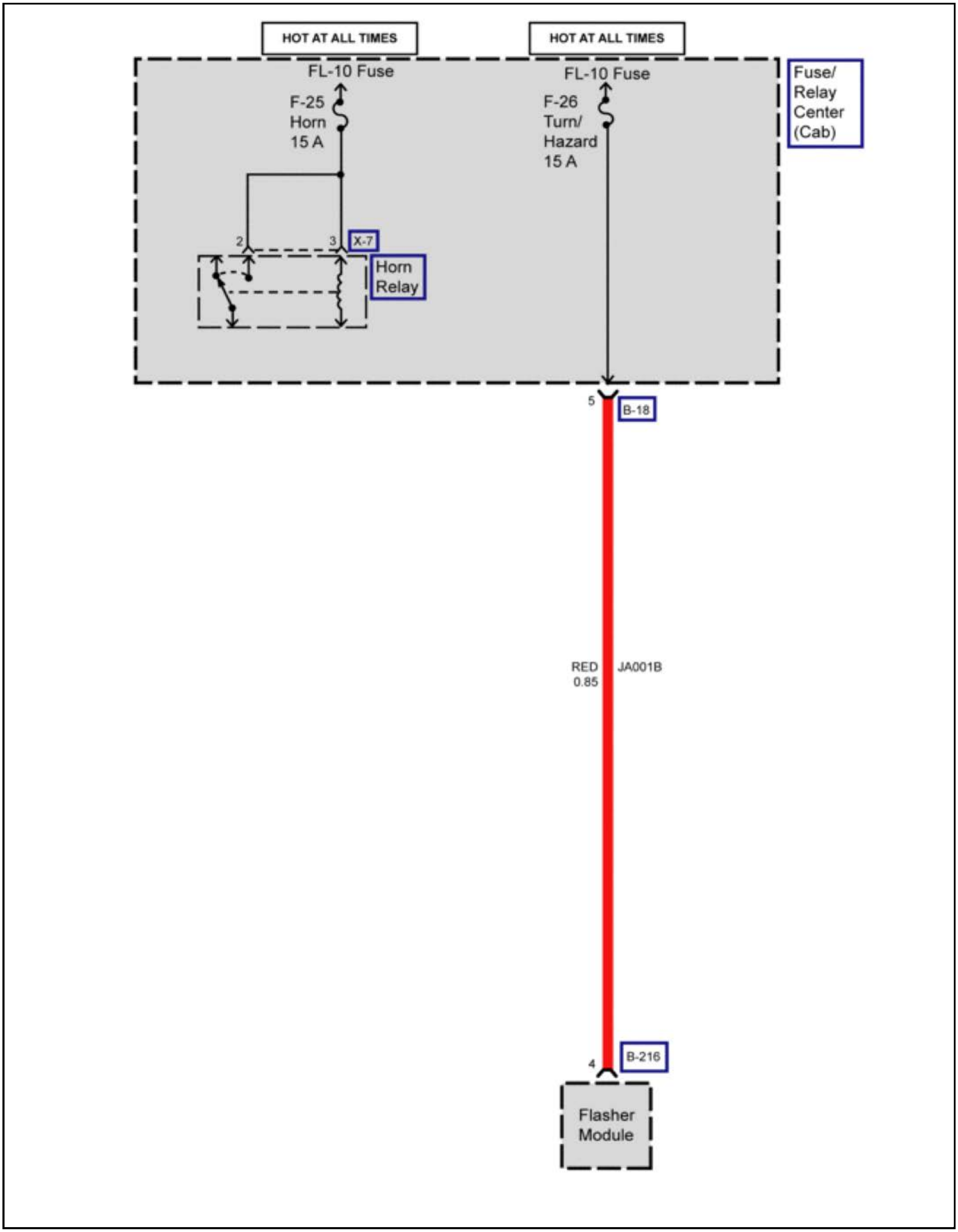
4891469

Fuses (Cab) (F-23, F-24 Fuses)


HOT IN ACC OR ON
Ignition Switch
Fuse/ Relay Center (Cab)
F-23 Mirror 10 A
F-24 ACC 15 A
4 B-23
2 B-22
RED/ YEL 0.5 SA103B
4 B-146
J/B 2
RED/ YEL 0.5 WA107B
5 B-146
13 B-145
RED/ YEL 0.5 OA190B
5 H-85
RED/ YEL 0.5 OA190
4 N-16
Shift Lever
RED/ YEL 0.5 SA003B
2 B-131
6 B-135
J/B 1
18 B-138
1 B-133
15
14 B-135
6 B-136
RED/ YEL 0.5 KF003B
RED/ YEL 0.5 WA007B
RED/ YEL 0.5 SA040B
RED/ YEL 0.5 RA002B
RED/ YEL 0.5 SA041B
17 B-402
4 B-179
3 B-272
4 B-115
2 B-212
Mimamori Module
Power Mirror Switch
Cigar Lighter Relay
Radio
Power ACC Relay

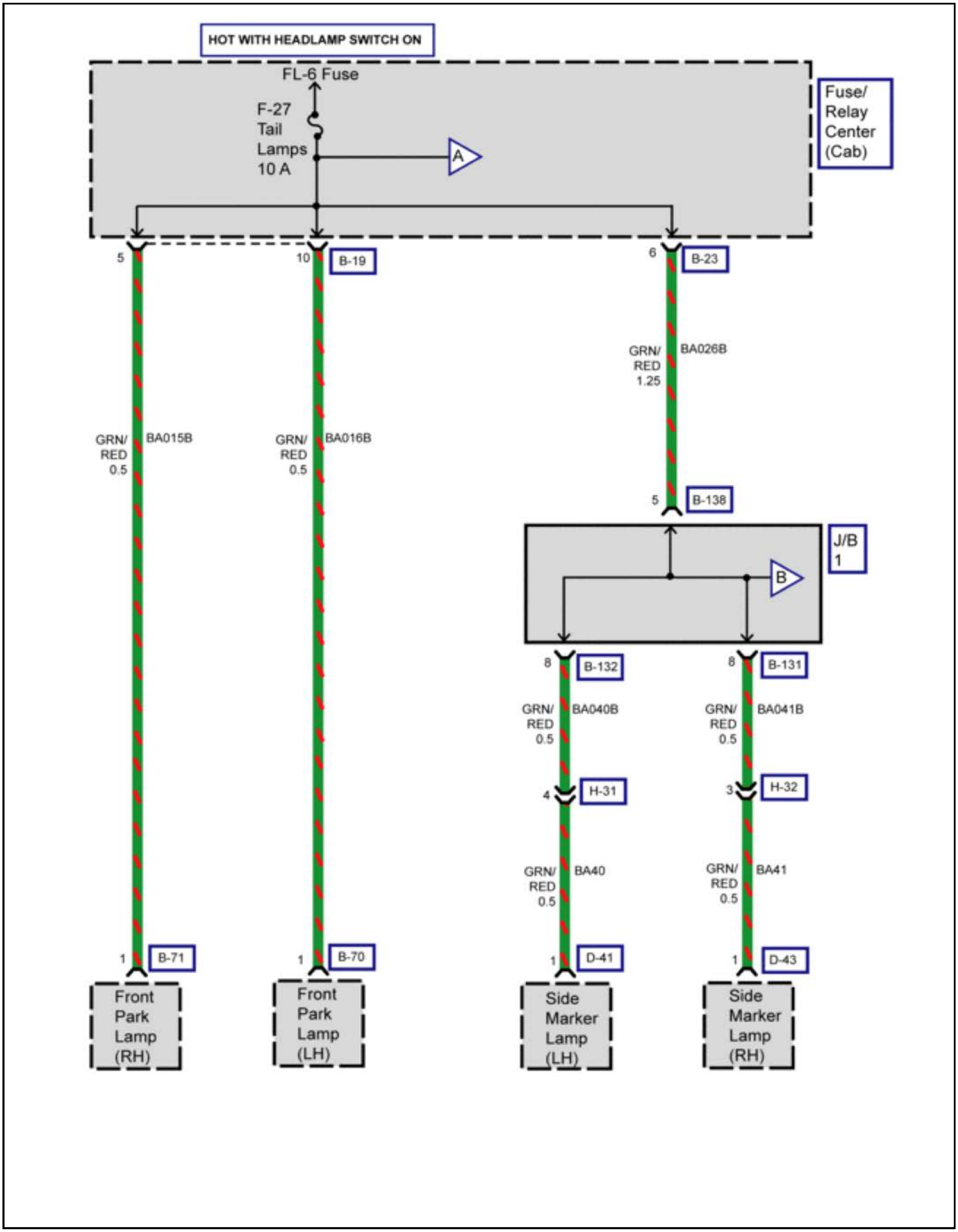
4891591

Fuses (Cab) (F-25, F-26 Fuses)


HOT AT ALL TIMES
HOT AT ALL TIMES
FL-10 Fuse
F-25
Horn
15 A
FL-10 Fuse
F-26
Turn/
Hazard
15 A
Fuse/
Relay
Center
(Cab)
2
3
X-7
Horn
Relay
5
B-18
RED
0.85
JA001B
4
B-216
Flasher
Module

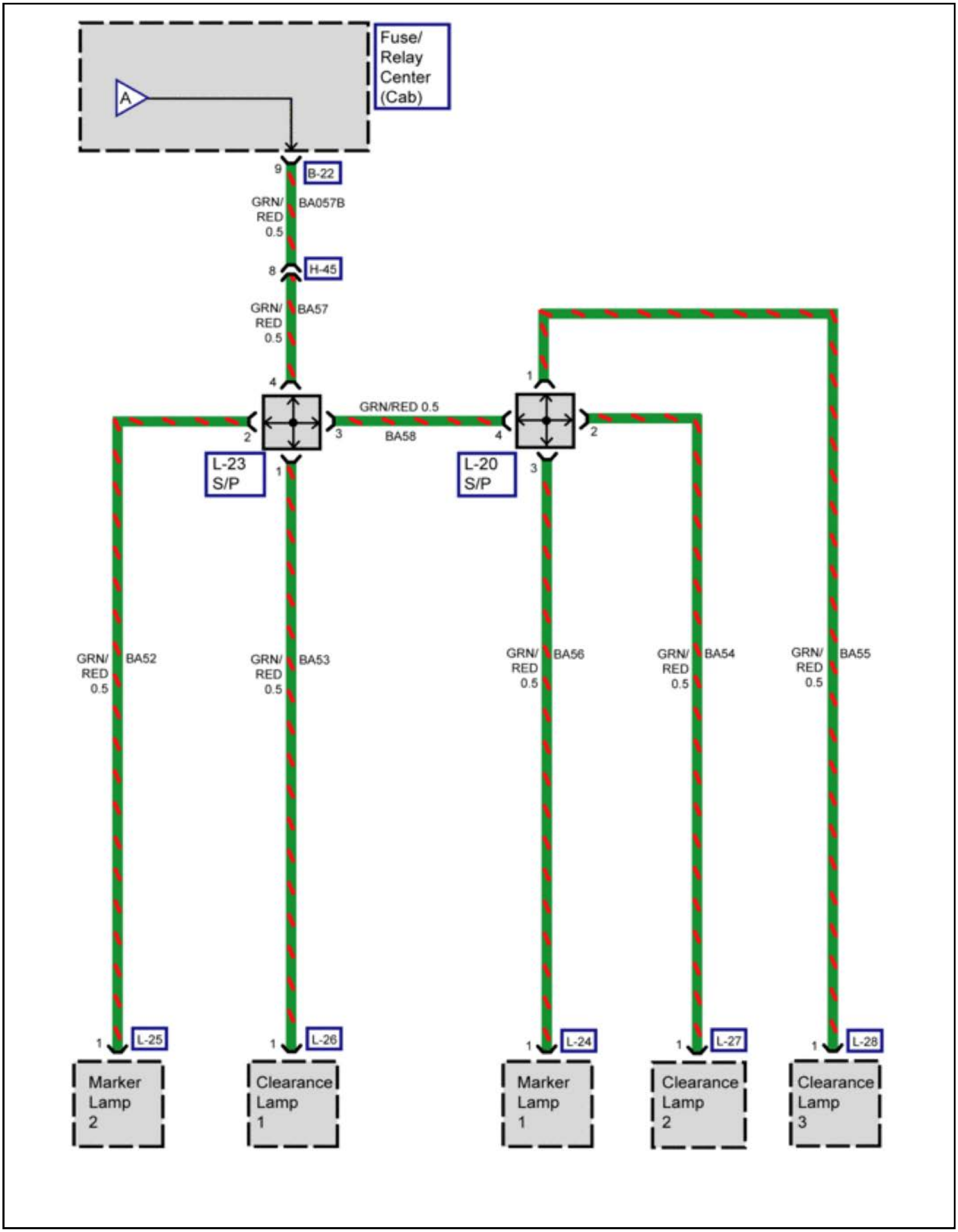
4891598

Fuses (Cab) (F-27 Fuse 1 of 3)


HOT WITH HEADLAMP SWITCH ON
FL-6 Fuse
F-27
Tail
Lamps
10 A
A
Fuse/
Relay
Center
(Cab)
5
10
B-19
6
B-23
GRN/
RED
1.25
BA026B
GRN/
RED
0.5
BA015B
GRN/
RED
0.5
BA016B
5
B-138
J/B
1
B
8
B-132
8
B-131
GRN/
RED
0.5
BA040B
GRN/
RED
0.5
BA041B
4
H-31
3
H-32
GRN/
RED
0.5
BA40
GRN/
RED
0.5
BA41
1
B-71
1
B-70
1
D-41
1
D-43
Front
Park
Lamp
(RH)
Front
Park
Lamp
(LH)
Side
Marker
Lamp
(LH)
Side
Marker
Lamp
(RH)

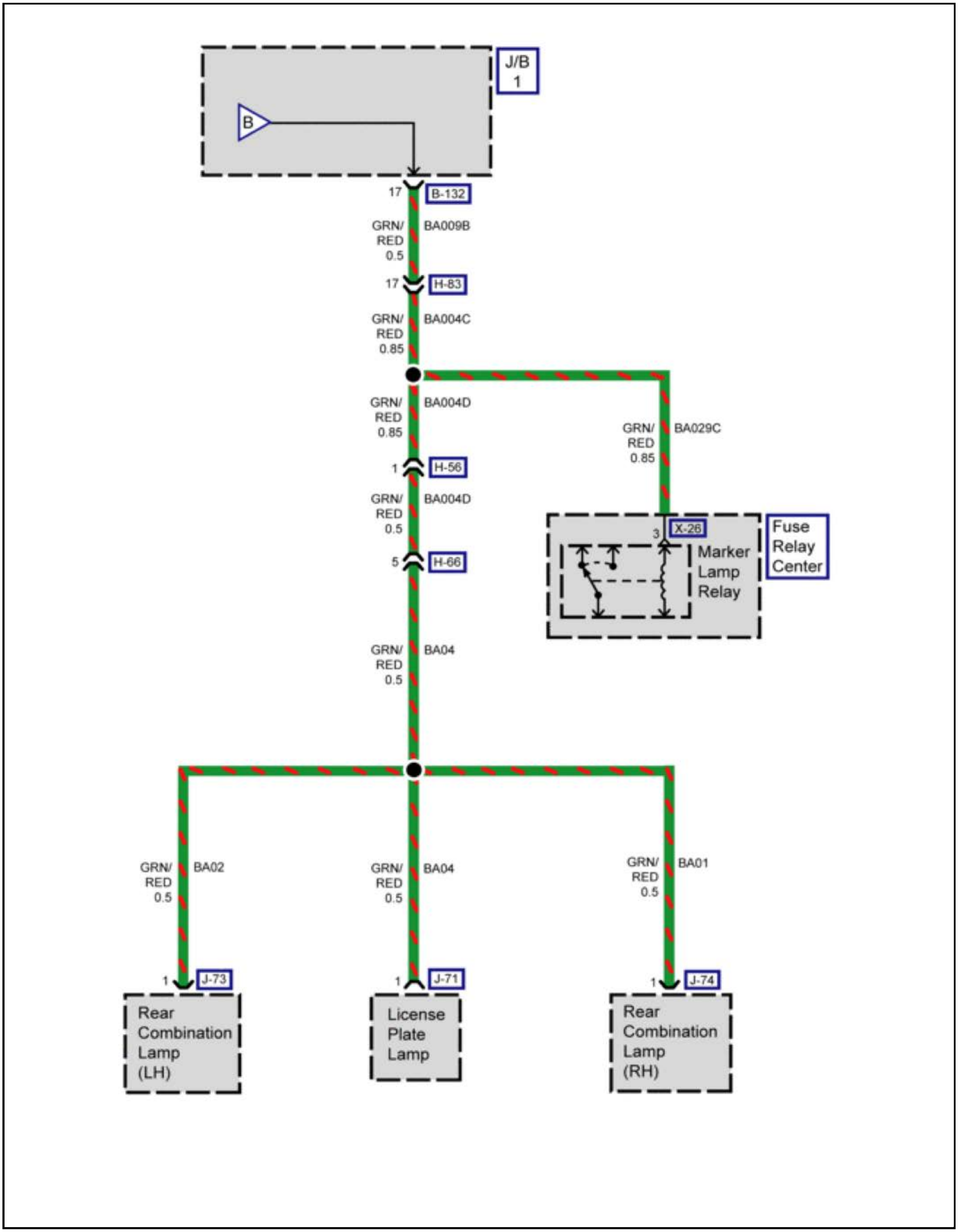
4891607

Fuses (Cab) (F-27 Fuse 2 of 3)


Fuse/ Relay Center (Cab)
A
9
B-22
GRN/ RED 0.5
BA057B
8
H-45
GRN/ RED 0.5
BA57
4
2
3
1
L-23 S/P
GRN/RED 0.5
BA58
1
4
2
3
L-20 S/P
GRN/ RED 0.5
BA52
GRN/ RED 0.5
BA53
GRN/ RED 0.5
BA56
GRN/ RED 0.5
BA54
GRN/ RED 0.5
BA55
1
L-25
1
L-26
1
L-24
1
L-27
1
L-28
Marker Lamp 2
Clearance Lamp 1
Marker Lamp 1
Clearance Lamp 2
Clearance Lamp 3

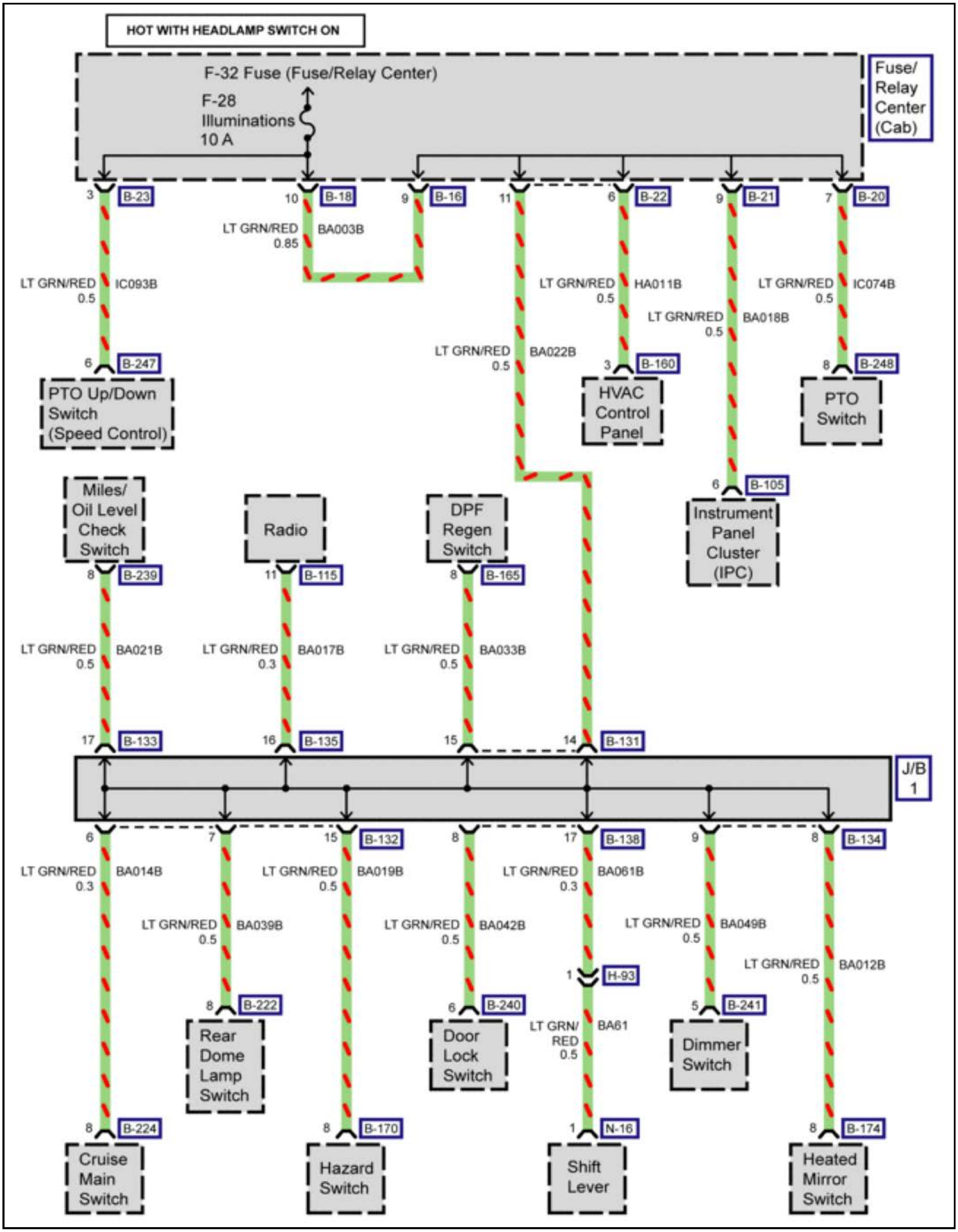
4891615

Fuses (Cab) (F-27 Fuse 3 of 3)


J/B
1
B
17
B-132
GRN/
RED
0.5
BA009B
17
H-83
GRN/
RED
0.85
BA004C
GRN/
RED
0.85
BA004D
GRN/
RED
0.85
BA029C
1
H-56
GRN/
RED
0.5
BA004D
3
X-26
Marker
Lamp
Relay
Fuse
Relay
Center
5
H-66
GRN/
RED
0.5
BA04
GRN/
RED
0.5
BA02
GRN/
RED
0.5
BA04
GRN/
RED
0.5
BA01
1
J-73
1
J-71
1
J-74
Rear
Combination
Lamp
(LH)
License
Plate
Lamp
Rear
Combination
Lamp
(RH)

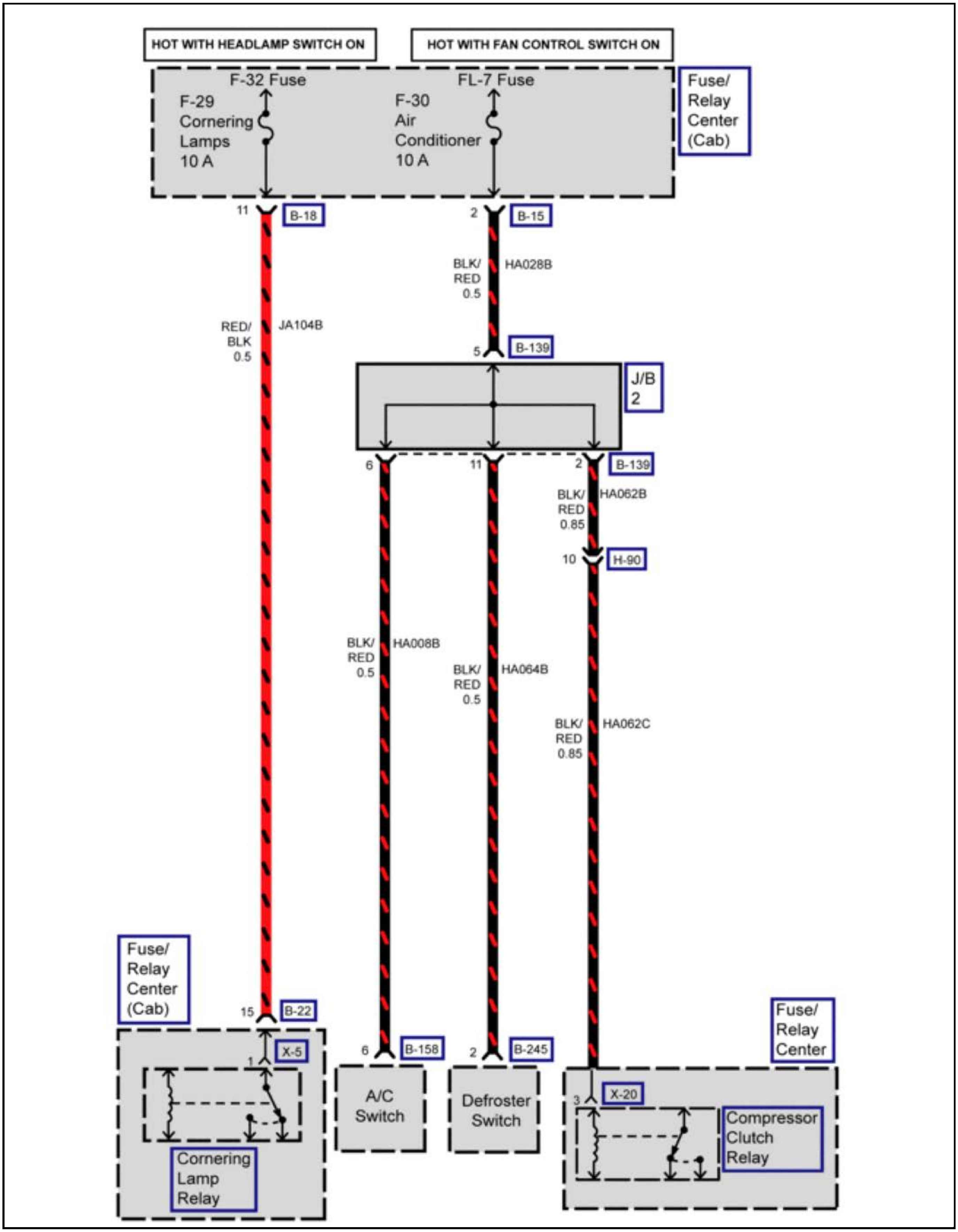
4891620

Fuses (Cab) (F-28 Fuse)


HOT WITH HEADLAMP SWITCH ON
F-32 Fuse (Fuse/Relay Center)
F-28
Illuminations
10 A
Fuse/
Relay
Center
(Cab)
3 B-23
10 B-18
9 B-16
11
6 B-22
9 B-21
7 B-20
LT GRN/RED 0.5 IC093B
LT GRN/RED 0.85 BA003B
LT GRN/RED 0.5 BA022B
LT GRN/RED 0.5 HA011B
LT GRN/RED 0.5 BA018B
LT GRN/RED 0.5 IC074B
6 B-247
PTO Up/Down Switch (Speed Control)
3 B-160
HVAC Control Panel
8 B-248
PTO Switch
6 B-105
Instrument Panel Cluster (IPC)
Miles/ Oil Level Check Switch
Radio
DPF Regen Switch
8 B-239
11 B-115
8 B-165
LT GRN/RED 0.5 BA021B
LT GRN/RED 0.3 BA017B
LT GRN/RED 0.5 BA033B
17 B-133
16 B-135
15
14 B-131
J/B 1
6
7
15 B-132
8
17 B-138
9
8 B-134
LT GRN/RED 0.3 BA014B
LT GRN/RED 0.5 BA039B
LT GRN/RED 0.5 BA019B
LT GRN/RED 0.5 BA042B
LT GRN/RED 0.3 BA061B
LT GRN/RED 0.5 BA049B
LT GRN/RED 0.5 BA012B
1 H-93
LT GRN/ RED 0.5 BA61
8 B-222
Rear Dome Lamp Switch
6 B-240
Door Lock Switch
5 B-241
Dimmer Switch
8 B-224
Cruise Main Switch
8 B-170
Hazard Switch
1 N-16
Shift Lever
8 B-174
Heated Mirror Switch

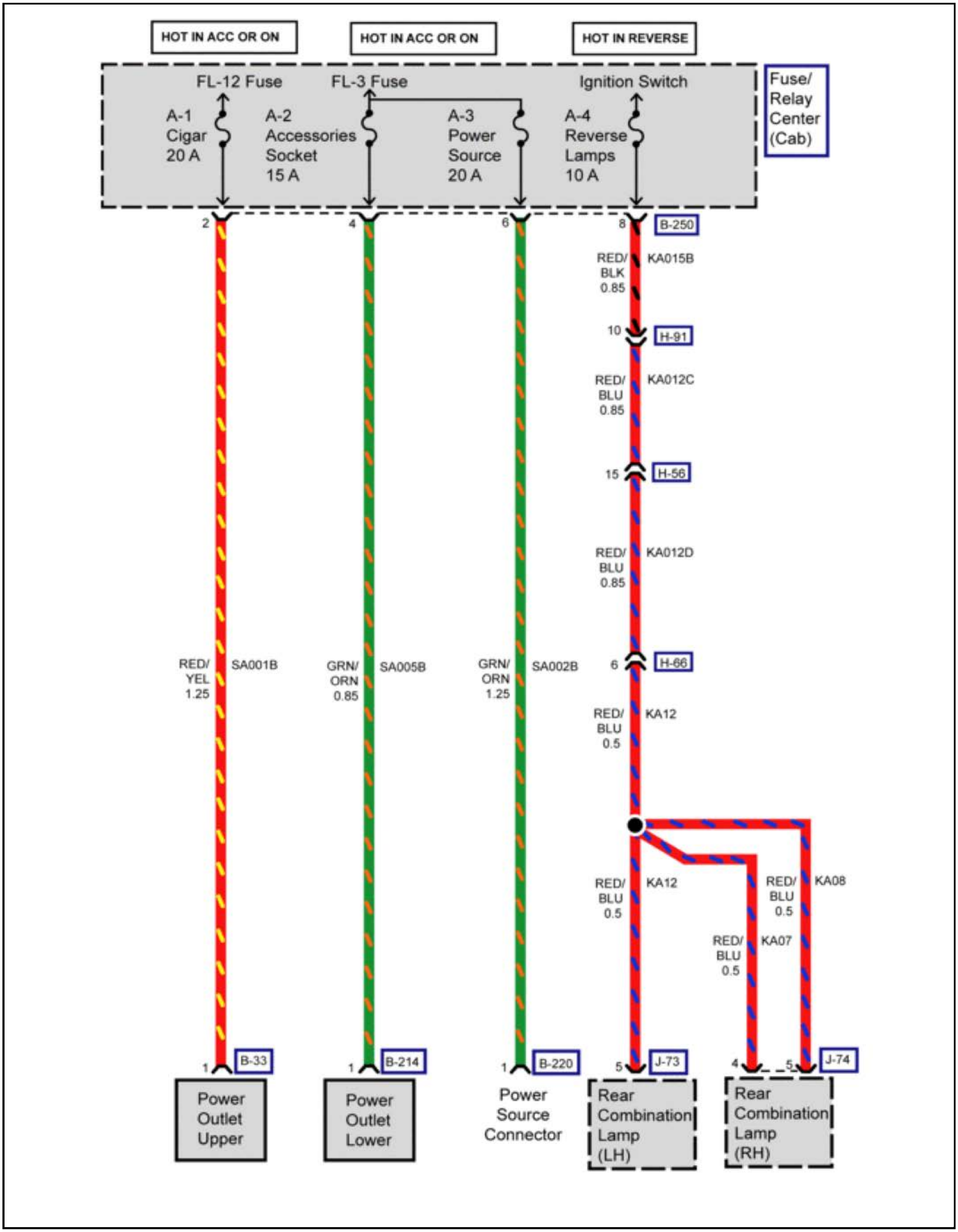
4891633

Fuses (Cab) (F-29, F-30 Fuses)


HOT WITH HEADLAMP SWITCH ON
HOT WITH FAN CONTROL SWITCH ON
F-32 Fuse
F-29
Cornering
Lamps
10 A
FL-7 Fuse
F-30
Air
Conditioner
10 A
Fuse/
Relay
Center
(Cab)
11
B-18
2
B-15
BLK/
RED
0.5
HA028B
RED/
BLK
0.5
JA104B
5
B-139
J/B
2
6
11
2
B-139
BLK/
RED
0.85
HA062B
10
H-90
BLK/
RED
0.5
HA008B
BLK/
RED
0.5
HA064B
BLK/
RED
0.85
HA062C
Fuse/
Relay
Center
(Cab)
15
B-22
X-5
1
Cornering
Lamp
Relay
6
B-158
A/C
Switch
2
B-245
Defroster
Switch
Fuse/
Relay
Center
3
X-20
Compressor
Clutch
Relay

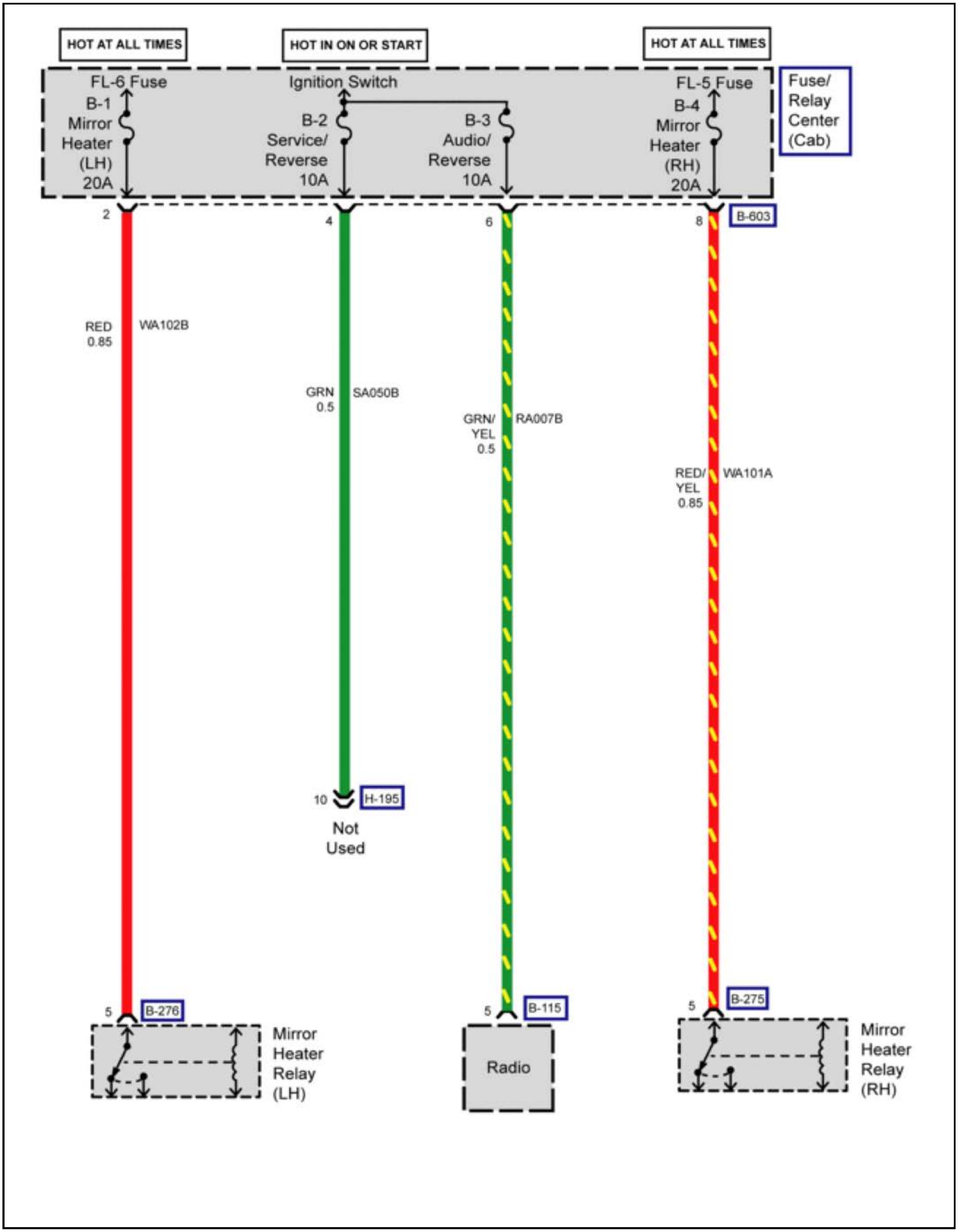
4891644

Fuses (Cab) (A-1, A-2, A-3, A-4 Fuses)


HOT IN ACC OR ON
HOT IN ACC OR ON
HOT IN REVERSE
FL-12 Fuse
FL-3 Fuse
Ignition Switch
Fuse/ Relay Center (Cab)
A-1 Cigar 20 A
A-2 Accessories Socket 15 A
A-3 Power Source 20 A
A-4 Reverse Lamps 10 A
2
4
6
8
B-250
RED/ BLK 0.85
KA015B
10
H-91
RED/ BLU 0.85
KA012C
15
H-56
RED/ BLU 0.85
KA012D
6
H-66
RED/ YEL 1.25
SA001B
GRN/ ORN 0.85
SA005B
GRN/ ORN 1.25
SA002B
RED/ BLU 0.5
KA12
RED/ BLU 0.5
KA12
RED/ BLU 0.5
KA08
RED/ BLU 0.5
KA07
1
B-33
1
B-214
1
B-220
5
J-73
4
5
J-74
Power Outlet Upper
Power Outlet Lower
Power Source Connector
Rear Combination Lamp (LH)
Rear Combination Lamp (RH)

4891660

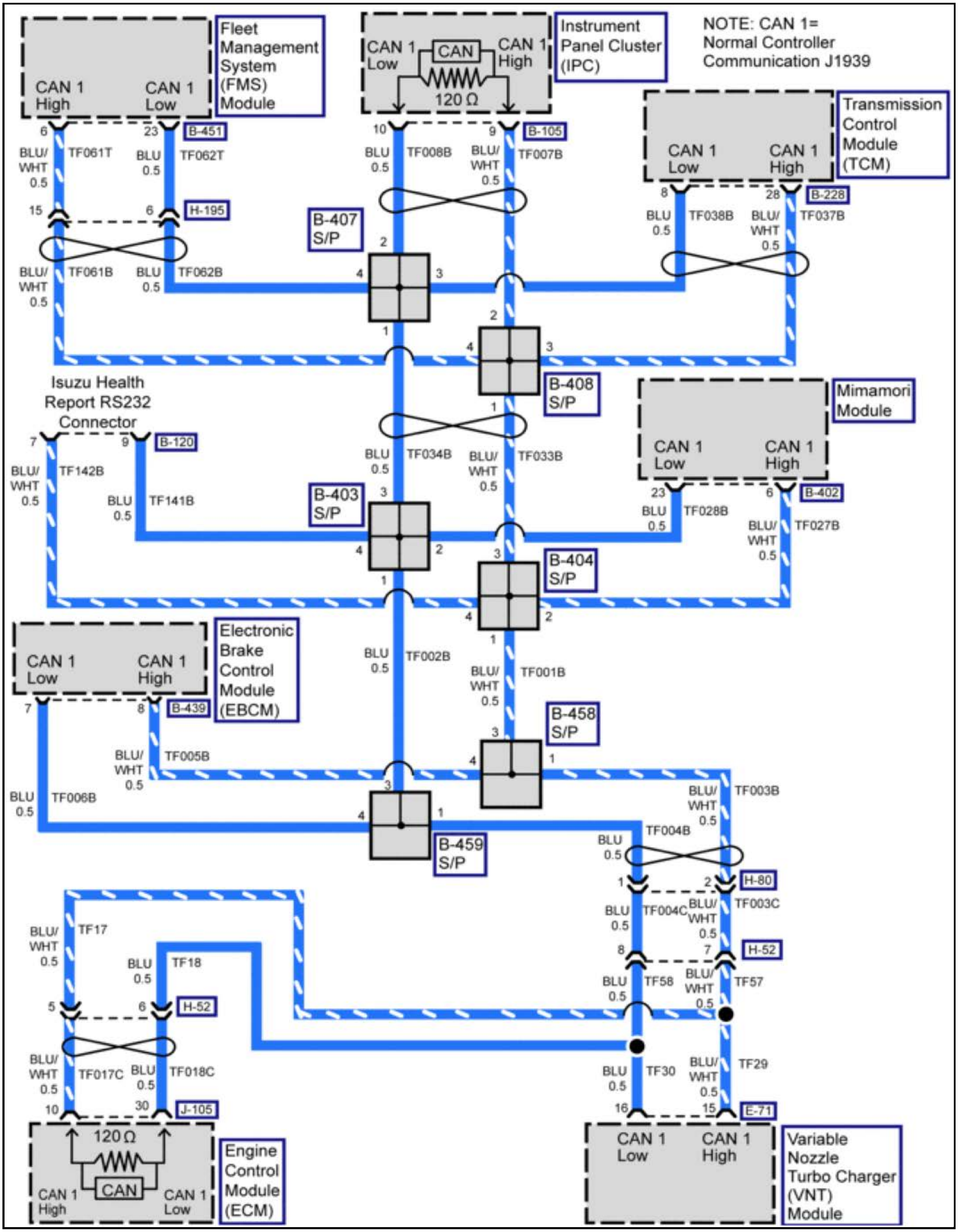
Fuses (Cab) (B-1, B-2, B-3, B-4 Fuses)


HOT AT ALL TIMES
HOT IN ON OR START
HOT AT ALL TIMES
FL-6 Fuse
B-1 Mirror Heater (LH) 20A
Ignition Switch
B-2 Service/ Reverse 10A
B-3 Audio/ Reverse 10A
FL-5 Fuse
B-4 Mirror Heater (RH) 20A
Fuse/ Relay Center (Cab)
2
4
6
8
B-603
RED 0.85
WA102B
GRN 0.5
SA050B
GRN/ YEL 0.5
RA007B
RED/ YEL 0.85
WA101A
10
H-195
Not Used
5
B-276
Mirror Heater Relay (LH)
5
B-115
Radio
5
B-275
Mirror Heater Relay (RH)

4891665

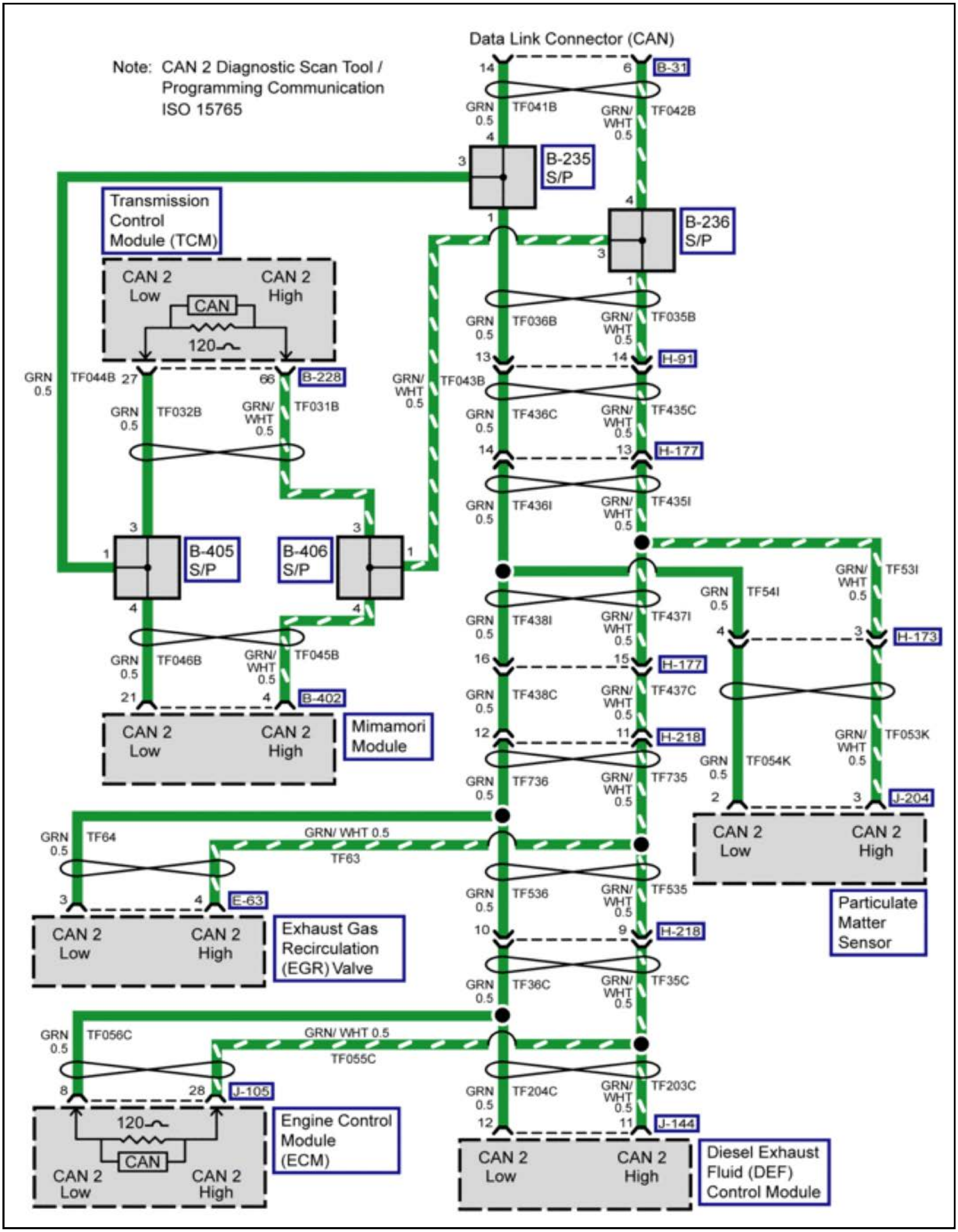
Schematic and Routing Diagrams

Controller Area Network (CAN) Schematics (CAN 1 (J1939))


Fleet Management System (FMS) Module
CAN 1 High
CAN 1 Low
6
23
B-451
BLU/ WHT 0.5
TF061T
BLU 0.5
TF062T
15
6
H-195
BLU/ WHT 0.5
TF061B
BLU 0.5
TF062B
CAN 1 Low
CAN
CAN 1 High
120 Ω
Instrument Panel Cluster (IPC)
10
9
B-105
BLU 0.5
TF008B
BLU/ WHT 0.5
TF007B
NOTE: CAN 1= Normal Controller Communication J1939
Transmission Control Module (TCM)
CAN 1 Low
CAN 1 High
8
28
B-228
BLU 0.5
TF038B
BLU/ WHT 0.5
TF037B
B-407 S/P
2
4
3
1
B-408 S/P
2
4
3
1
Isuzu Health Report RS232 Connector
7
9
B-120
BLU/ WHT 0.5
TF142B
BLU 0.5
TF141B
BLU 0.5
TF034B
BLU/ WHT 0.5
TF033B
Mimamori Module
CAN 1 Low
CAN 1 High
23
6
B-402
BLU 0.5
TF028B
BLU/ WHT 0.5
TF027B
B-403 S/P
3
4
2
1
B-404 S/P
3
4
2
1
Electronic Brake Control Module (EBCM)
CAN 1 Low
CAN 1 High
7
8
B-439
BLU 0.5
TF002B
BLU/ WHT 0.5
TF001B
B-458 S/P
3
4
1
BLU/ WHT 0.5
TF005B
BLU 0.5
TF006B
3
4
1
B-459 S/P
BLU/ WHT 0.5
TF003B
BLU 0.5
TF004B
1
2
H-80
BLU 0.5
TF004C
BLU/ WHT 0.5
TF003C
8
7
H-52
BLU 0.5
TF58
BLU/ WHT 0.5
TF57
BLU/ WHT 0.5
TF17
BLU 0.5
TF18
5
6
H-52
BLU/ WHT 0.5
TF017C
BLU 0.5
TF018C
10
30
J-105
120 Ω
CAN
CAN 1 High
CAN 1 Low
Engine Control Module (ECM)
BLU 0.5
TF30
BLU/ WHT 0.5
TF29
16
15
E-71
CAN 1 Low
CAN 1 High
Variable Nozzle Turbo Charger (VNT) Module

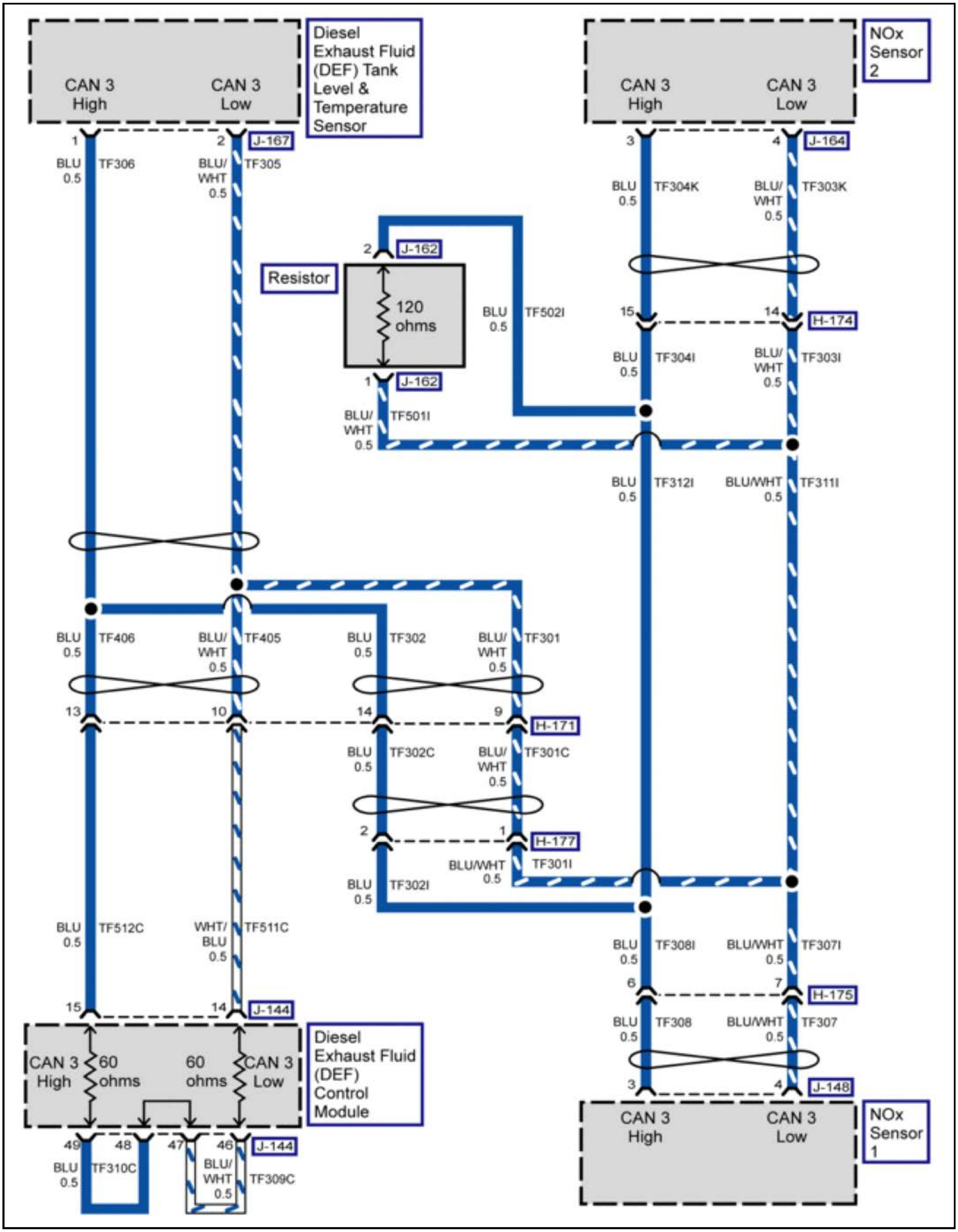
4891808

Controller Area Network (CAN) Schematics (CAN 2 (ISO 15765))


Data Link Connector (CAN)
Note: CAN 2 Diagnostic Scan Tool / Programming Communication ISO 15765
14
6
B-31
GRN 0.5
TF041B
GRN/ WHT 0.5
TF042B
4
3
B-235 S/P
1
4
B-236 S/P
3
1
Transmission Control Module (TCM)
CAN 2 Low
CAN 2 High
CAN
120
GRN 0.5
TF044B
27
66
B-228
GRN 0.5
TF032B
GRN/ WHT 0.5
TF031B
GRN/ WHT 0.5
TF043B
GRN 0.5
TF036B
GRN/ WHT 0.5
TF035B
13
14
H-91
GRN 0.5
TF436C
GRN/ WHT 0.5
TF435C
14
13
H-177
GRN 0.5
TF436I
GRN/ WHT 0.5
TF435I
3
3
1
B-405 S/P
B-406 S/P
1
4
4
GRN 0.5
TF046B
GRN/ WHT 0.5
TF045B
21
4
B-402
CAN 2 Low
CAN 2 High
Mimamori Module
GRN 0.5
TF438I
GRN/ WHT 0.5
TF437I
16
15
H-177
GRN 0.5
TF438C
GRN/ WHT 0.5
TF437C
12
11
H-218
GRN 0.5
TF736
GRN/ WHT 0.5
TF735
GRN 0.5
TF54I
GRN/ WHT 0.5
TF53I
4
3
H-173
GRN 0.5
TF054K
GRN/ WHT 0.5
TF053K
2
3
J-204
CAN 2 Low
CAN 2 High
Particulate Matter Sensor
GRN 0.5
TF64
GRN/ WHT 0.5
TF63
3
4
E-63
CAN 2 Low
CAN 2 High
Exhaust Gas Recirculation (EGR) Valve
GRN 0.5
TF536
GRN/ WHT 0.5
TF535
10
9
H-218
GRN 0.5
TF36C
GRN/ WHT 0.5
TF35C
GRN 0.5
TF056C
GRN/ WHT 0.5
TF055C
8
28
J-105
120
CAN
CAN 2 Low
CAN 2 High
Engine Control Module (ECM)
GRN 0.5
TF204C
GRN/ WHT 0.5
TF203C
12
11
J-144
CAN 2 Low
CAN 2 High
Diesel Exhaust Fluid (DEF) Control Module

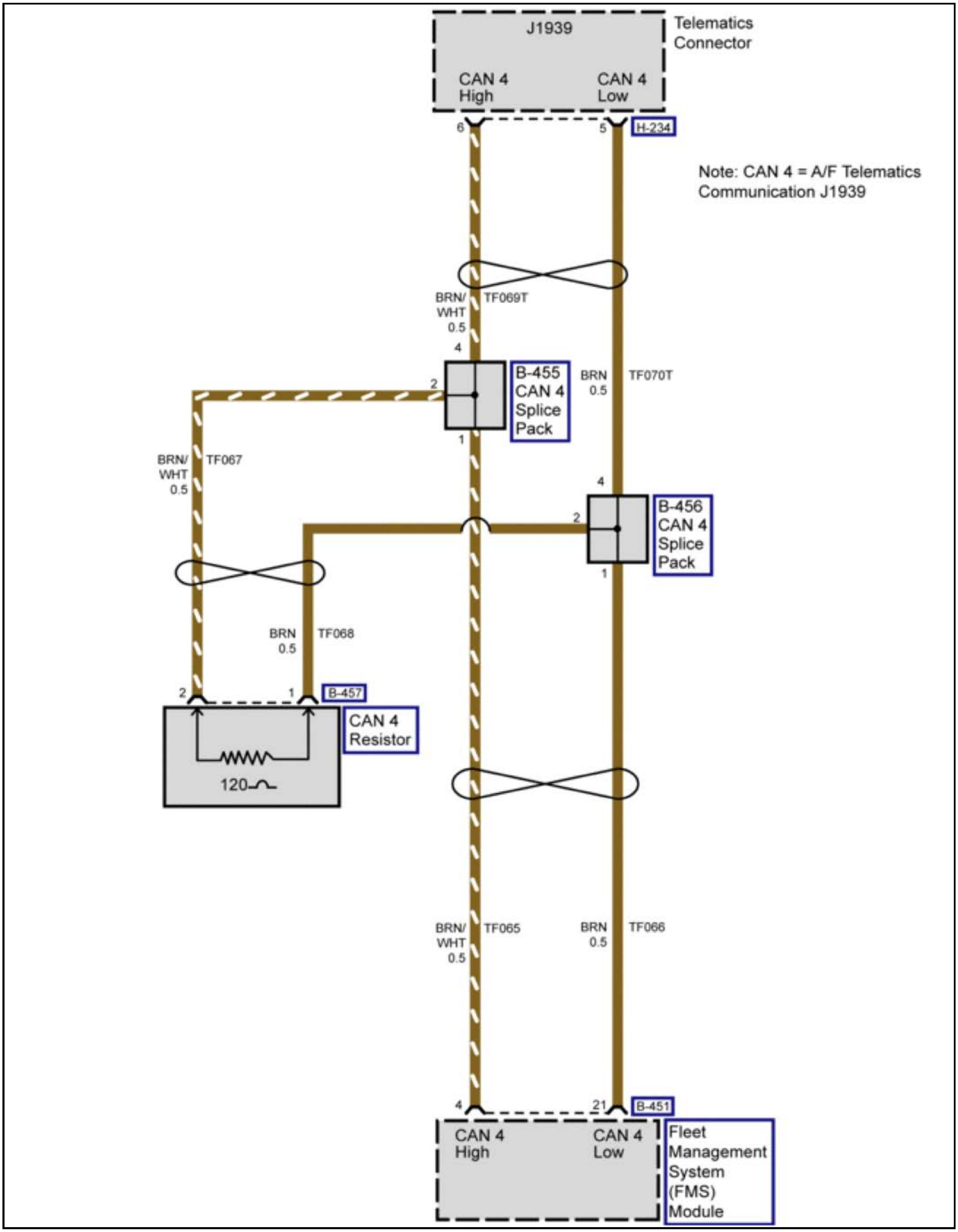
4891815

Controller Area Network (CAN) Schematics (CAN 3 (DEF))


Diesel Exhaust Fluid (DEF) Tank Level & Temperature Sensor
CAN 3 High
CAN 3 Low
1
2
J-167
BLU 0.5
TF306
BLU/ WHT 0.5
TF305
NOx Sensor 2
3
4
J-164
BLU 0.5
TF304K
BLU/ WHT 0.5
TF303K
2
J-162
Resistor
120 ohms
1
J-162
BLU 0.5
TF502I
15
14
H-174
BLU 0.5
TF304I
BLU/ WHT 0.5
TF303I
BLU/ WHT 0.5
TF501I
BLU 0.5
TF312I
BLU/WHT 0.5
TF311I
BLU 0.5
TF406
BLU/ WHT 0.5
TF405
BLU 0.5
TF302
BLU/ WHT 0.5
TF301
13
10
14
9
H-171
BLU 0.5
TF302C
BLU/ WHT 0.5
TF301C
2
1
H-177
BLU/WHT 0.5
TF301I
BLU 0.5
TF302I
BLU 0.5
TF512C
WHT/ BLU 0.5
TF511C
BLU 0.5
TF308I
BLU/WHT 0.5
TF307I
6
7
H-175
BLU 0.5
TF308
BLU/WHT 0.5
TF307
15
14
J-144
3
4
J-148
CAN 3 High
60 ohms
60 ohms
CAN 3 Low
Diesel Exhaust Fluid (DEF) Control Module
CAN 3 High
CAN 3 Low
NOx Sensor 1
49
48
47
46
J-144
BLU 0.5
TF310C
BLU/ WHT 0.5
TF309C

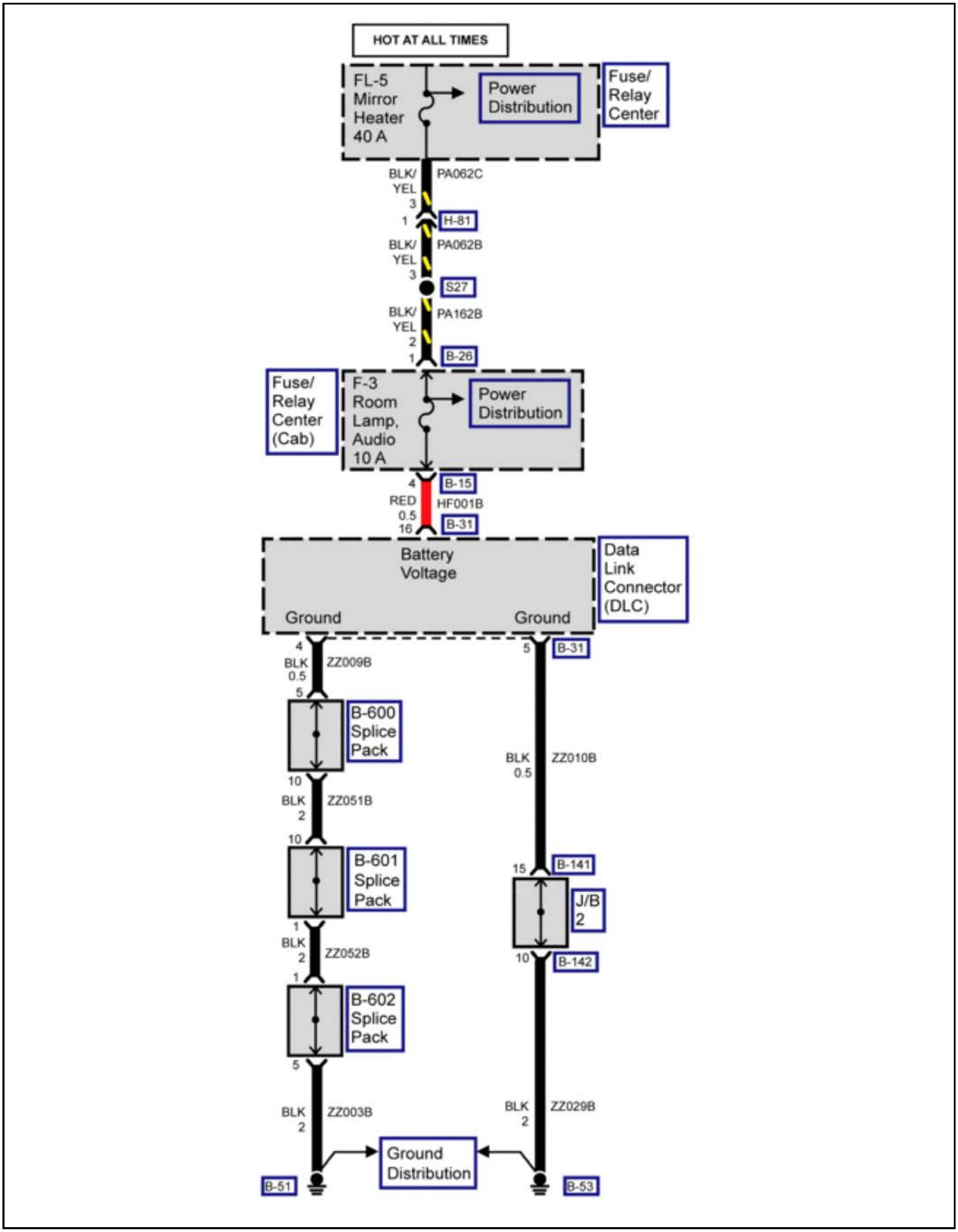
4891822

Controller Area Network (CAN) Schematics (CAN 4 (FMS))


J1939
Telematics Connector
CAN 4 High
CAN 4 Low
6
5
H-234
Note: CAN 4 = A/F Telematics Communication J1939
BRN/ WHT 0.5
TF069T
4
2
B-455 CAN 4 Splice Pack
1
BRN 0.5
TF070T
BRN/ WHT 0.5
TF067
4
2
B-456 CAN 4 Splice Pack
1
BRN 0.5
TF068
2
1
B-457
CAN 4 Resistor
120Ω
BRN/ WHT 0.5
TF065
BRN 0.5
TF066
4
21
B-451
CAN 4 High
CAN 4 Low
Fleet Management System (FMS) Module

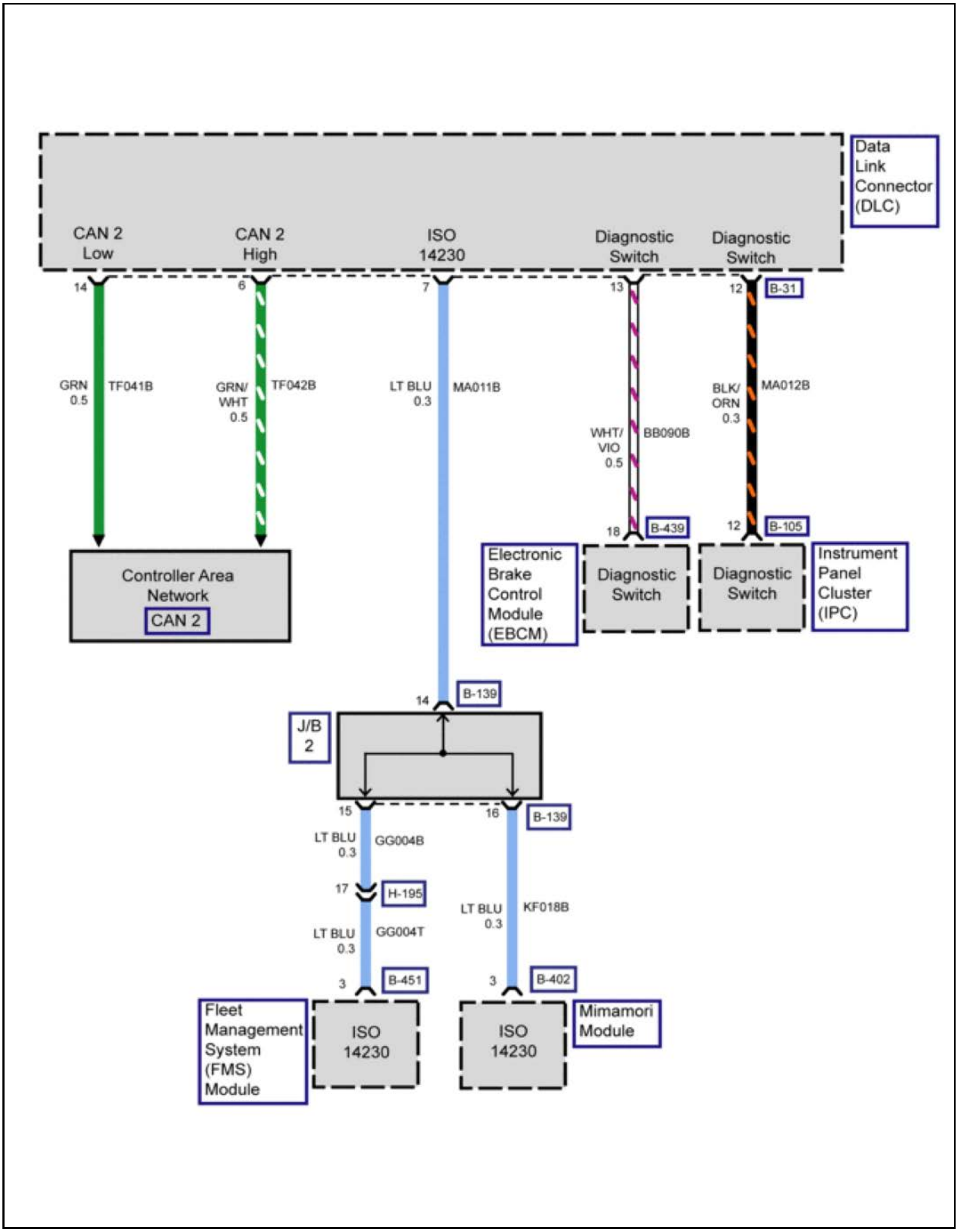
4891828

Data Link Connector Schematics (Powers and Grounds)


HOT AT ALL TIMES
FL-5 Mirror Heater 40 A
Power Distribution
Fuse/ Relay Center
BLK/ YEL 3
PA062C
1
H-81
BLK/ YEL 3
PA062B
S27
BLK/ YEL 2
PA162B
1
B-26
Fuse/ Relay Center (Cab)
F-3 Room Lamp, Audio 10 A
Power Distribution
4
B-15
RED 0.5
HF001B
16
B-31
Battery Voltage
Ground
Ground
Data Link Connector (DLC)
4
BLK 0.5
ZZ009B
5
B-600 Splice Pack
10
BLK 2
ZZ051B
10
B-601 Splice Pack
1
BLK 2
ZZ052B
1
B-602 Splice Pack
5
BLK 2
ZZ003B
B-51
Ground Distribution
5
B-31
BLK 0.5
ZZ010B
15
B-141
J/B 2
10
B-142
BLK 2
ZZ029B
B-53

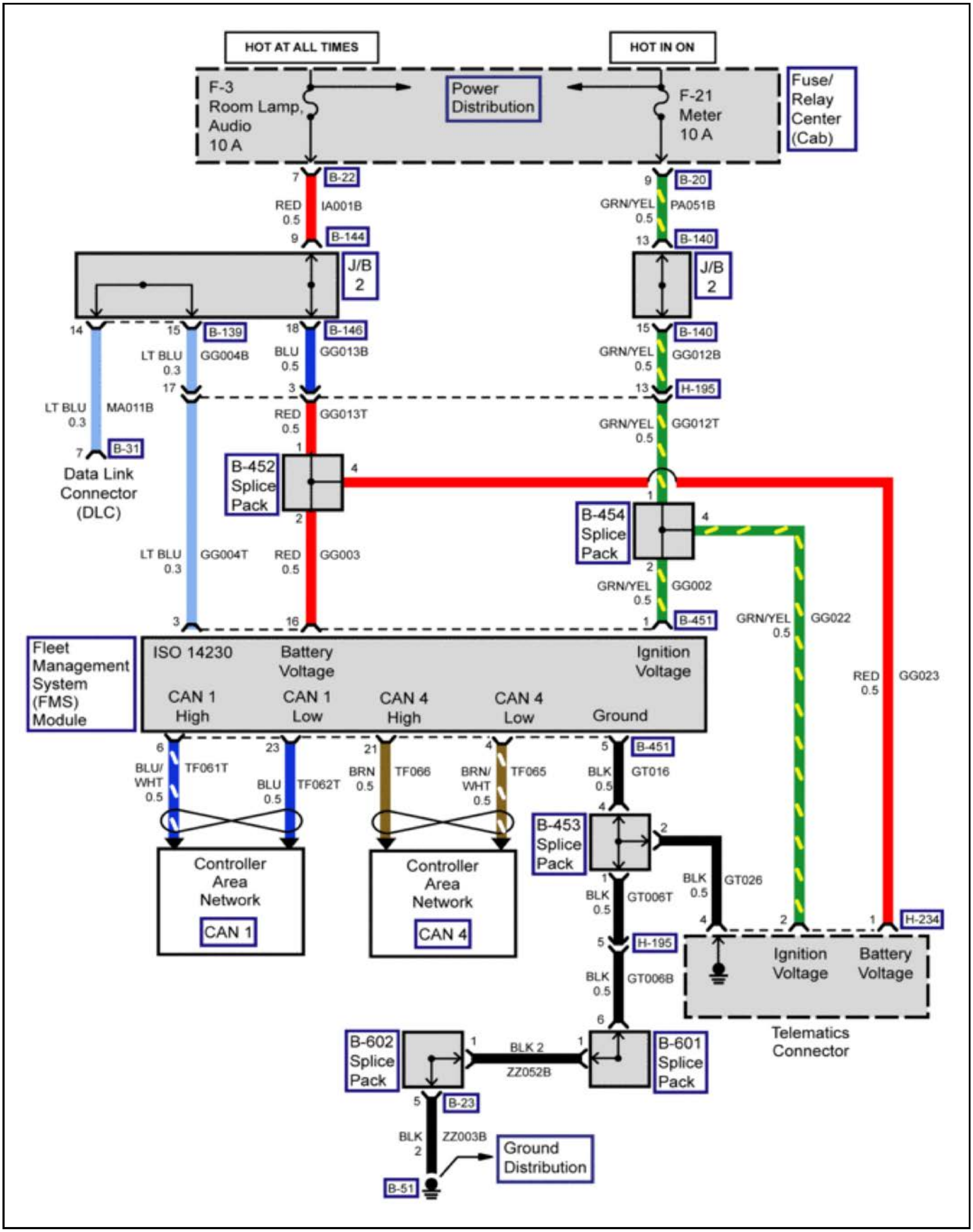
4891869

Data Link Connector Schematics (Communication)


Data Link Connector (DLC)
CAN 2 Low
CAN 2 High
ISO 14230
Diagnostic Switch
Diagnostic Switch
14
6
7
13
12
B-31
GRN 0.5
TF041B
GRN/ WHT 0.5
TF042B
LT BLU 0.3
MA011B
WHT/ VIO 0.5
BB090B
BLK/ ORN 0.3
MA012B
18
B-439
12
B-105
Controller Area Network
CAN 2
Electronic Brake Control Module (EBCM)
Diagnostic Switch
Diagnostic Switch
Instrument Panel Cluster (IPC)
14
B-139
J/B 2
15
16
B-139
LT BLU 0.3
GG004B
17
H-195
LT BLU 0.3
GG004T
LT BLU 0.3
KF018B
3
B-451
3
B-402
Fleet Management System (FMS) Module
ISO 14230
ISO 14230
Mimamori Module

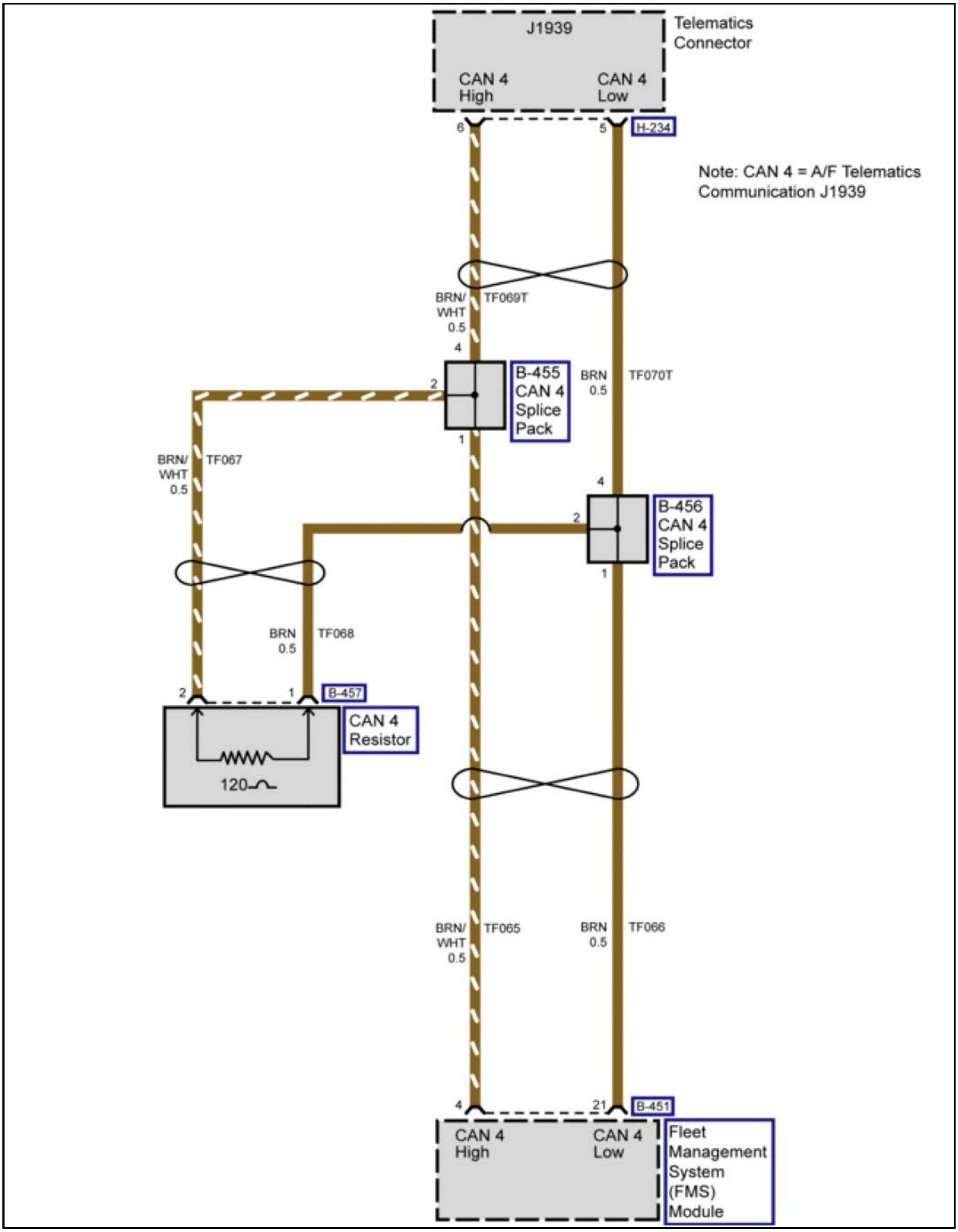
4891881

FMS CAN Interface Schematics (Module Power, Ground and Communication)


HOT AT ALL TIMES
HOT IN ON
F-3 Room Lamp, Audio 10 A
Power Distribution
F-21 Meter 10 A
Fuse/ Relay Center (Cab)
7 B-22
RED 0.5 IA001B
9 B-144
9 B-20
GRN/YEL 0.5 PA051B
13 B-140
J/B 2
J/B 2
14
15 B-139
18 B-146
15 B-140
LT BLU 0.3 GG004B
BLU 0.5 GG013B
GRN/YEL 0.5 GG012B
17
3
13 H-195
LT BLU 0.3 MA011B
RED 0.5 GG013T
GRN/YEL 0.5 GG012T
7 B-31
Data Link Connector (DLC)
1
B-452 Splice Pack
4
2
1
B-454 Splice Pack
4
2
LT BLU 0.3 GG004T
RED 0.5 GG003
GRN/YEL 0.5 GG002
3
16
1 B-451
GRN/YEL 0.5 GG022
RED 0.5 GG023
Fleet Management System (FMS) Module
ISO 14230
Battery Voltage
Ignition Voltage
CAN 1 High
CAN 1 Low
CAN 4 High
CAN 4 Low
Ground
6
23
21
4
5 B-451
BLU/ WHT 0.5 TF061T
BLU 0.5 TF062T
BRN 0.5 TF066
BRN/ WHT 0.5 TF065
BLK 0.5 GT016
4
B-453 Splice Pack
2
1
BLK 0.5 GT026
BLK 0.5 GT006T
Controller Area Network CAN 1
Controller Area Network CAN 4
5 H-195
4
2
1 H-234
Ignition Voltage
Battery Voltage
Telematics Connector
BLK 0.5 GT006B
6
B-602 Splice Pack
1
BLK 2 ZZ052B
1
B-601 Splice Pack
5 B-23
BLK 2 ZZ003B
Ground Distribution
B-51

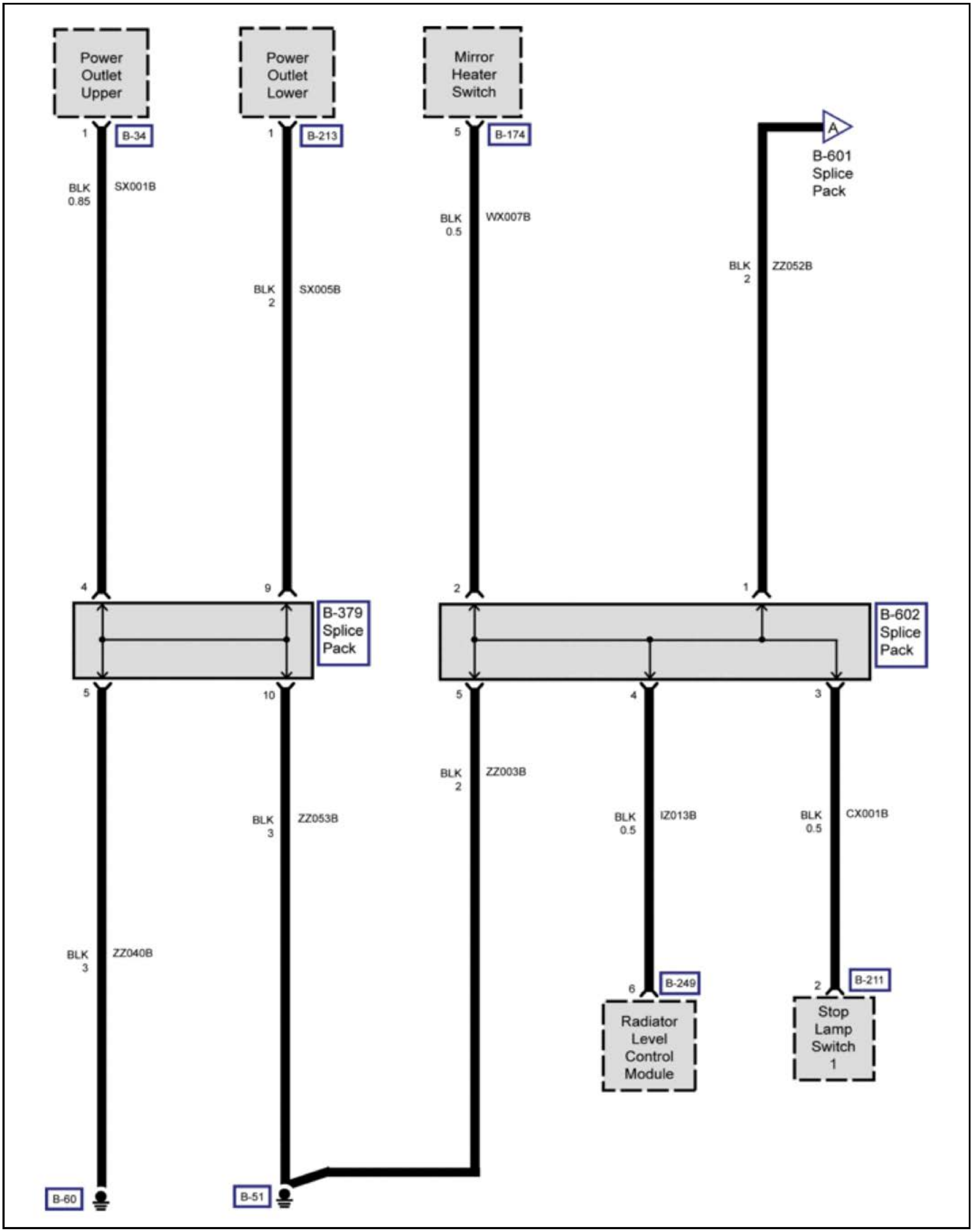
4891978

FMS CAN Interface Schematics (J1939 CAN Connector)


J1939
Telematics Connector
CAN 4 High
CAN 4 Low
6
5
H-234
Note: CAN 4 = A/F Telematics Communication J1939
BRN/ WHT 0.5
TF069T
4
2
1
B-455 CAN 4 Splice Pack
BRN 0.5
TF070T
BRN/ WHT 0.5
TF067
4
2
1
B-456 CAN 4 Splice Pack
BRN 0.5
TF068
2
1
B-457
CAN 4 Resistor
120Ω
BRN/ WHT 0.5
TF065
BRN 0.5
TF066
4
21
B-451
CAN 4 High
CAN 4 Low
Fleet Management System (FMS) Module

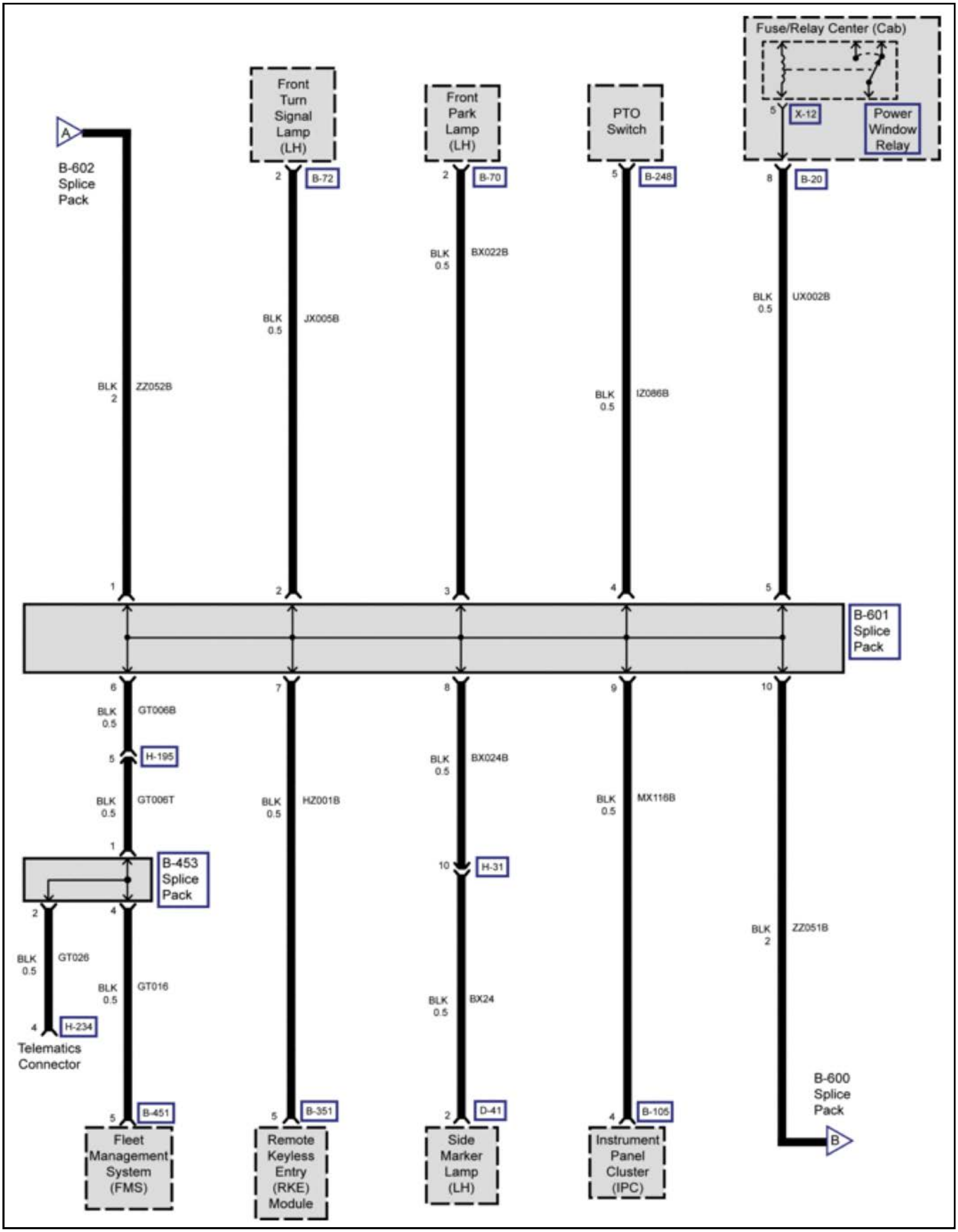
4891985

Ground Distribution Schematics (B-51, B-60 (B-379 and B-602 Splice Packs))


Power Outlet Upper
1
B-34
BLK 0.85
SX001B
4
5
BLK 3
ZZ040B
B-60
Power Outlet Lower
1
B-213
BLK 2
SX005B
9
10
BLK 3
ZZ053B
B-51
B-379 Splice Pack
Mirror Heater Switch
5
B-174
BLK 0.5
WX007B
2
5
BLK 2
ZZ003B
A
B-601 Splice Pack
BLK 2
ZZ052B
1
B-602 Splice Pack
4
BLK 0.5
IZ013B
6
B-249
Radiator Level Control Module
3
BLK 0.5
CX001B
2
B-211
Stop Lamp Switch 1

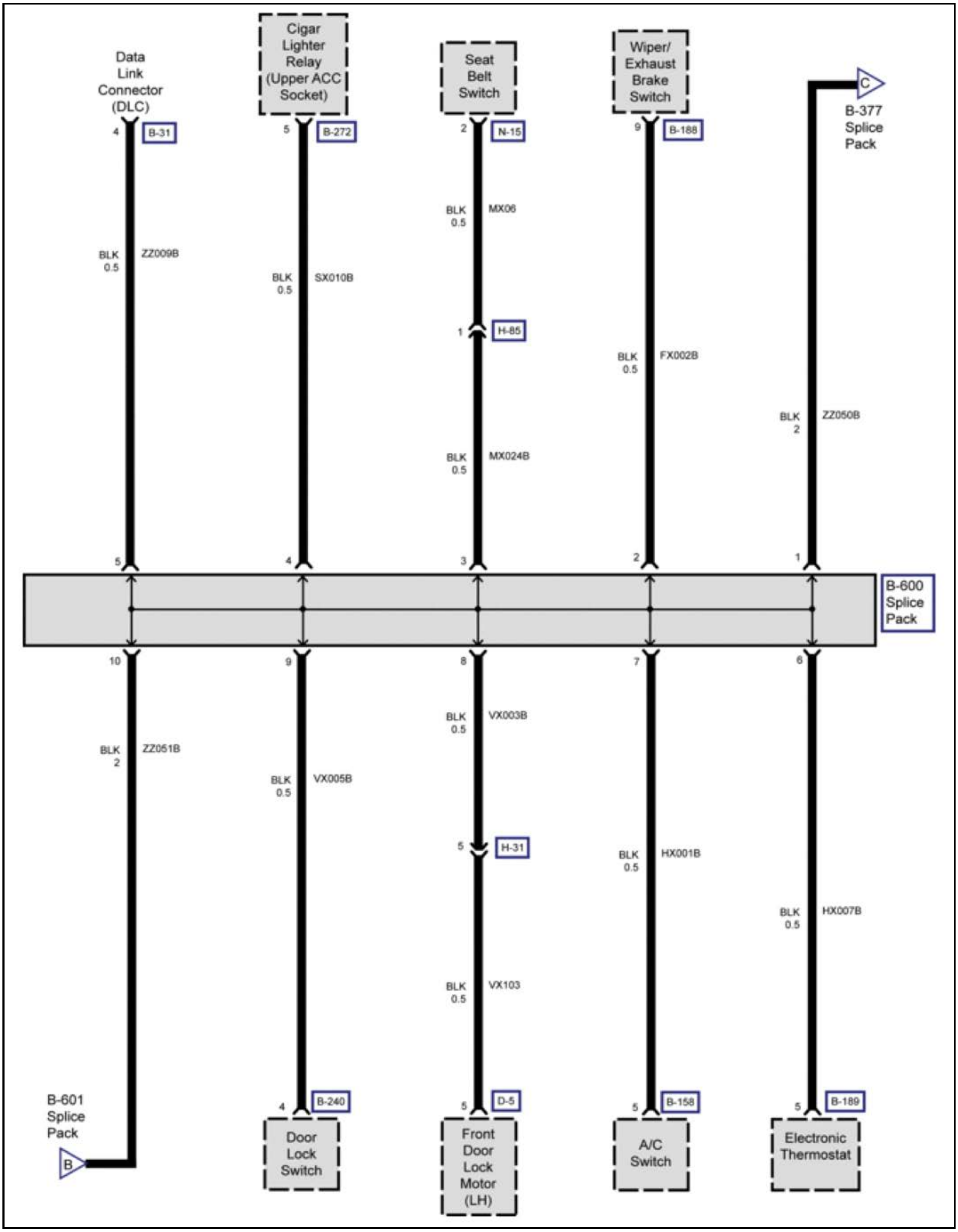
4890844

Ground Distribution Schematics (B-51 (B-601 Splice Pack))


Fuse/Relay Center (Cab)
5
X-12
Power Window Relay
Front Turn Signal Lamp (LH)
Front Park Lamp (LH)
PTO Switch
A
B-602 Splice Pack
2
B-72
2
B-70
5
B-248
8
B-20
BLK 0.5
JX005B
BLK 0.5
BX022B
BLK 0.5
UX002B
BLK 2
ZZ052B
BLK 0.5
IZ086B
1
2
3
4
5
B-601 Splice Pack
6
7
8
9
10
BLK 0.5
GT006B
5
H-195
BLK 0.5
GT006T
BLK 0.5
HZ001B
BLK 0.5
BX024B
BLK 0.5
MX116B
1
B-453 Splice Pack
10
H-31
2
4
BLK 0.5
GT026
BLK 0.5
GT016
BLK 0.5
BX24
BLK 2
ZZ051B
4
H-234
Telematics Connector
B-600 Splice Pack
5
B-451
5
B-351
2
D-41
4
B-105
B
Fleet Management System (FMS)
Remote Keyless Entry (RKE) Module
Side Marker Lamp (LH)
Instrument Panel Cluster (IPC)

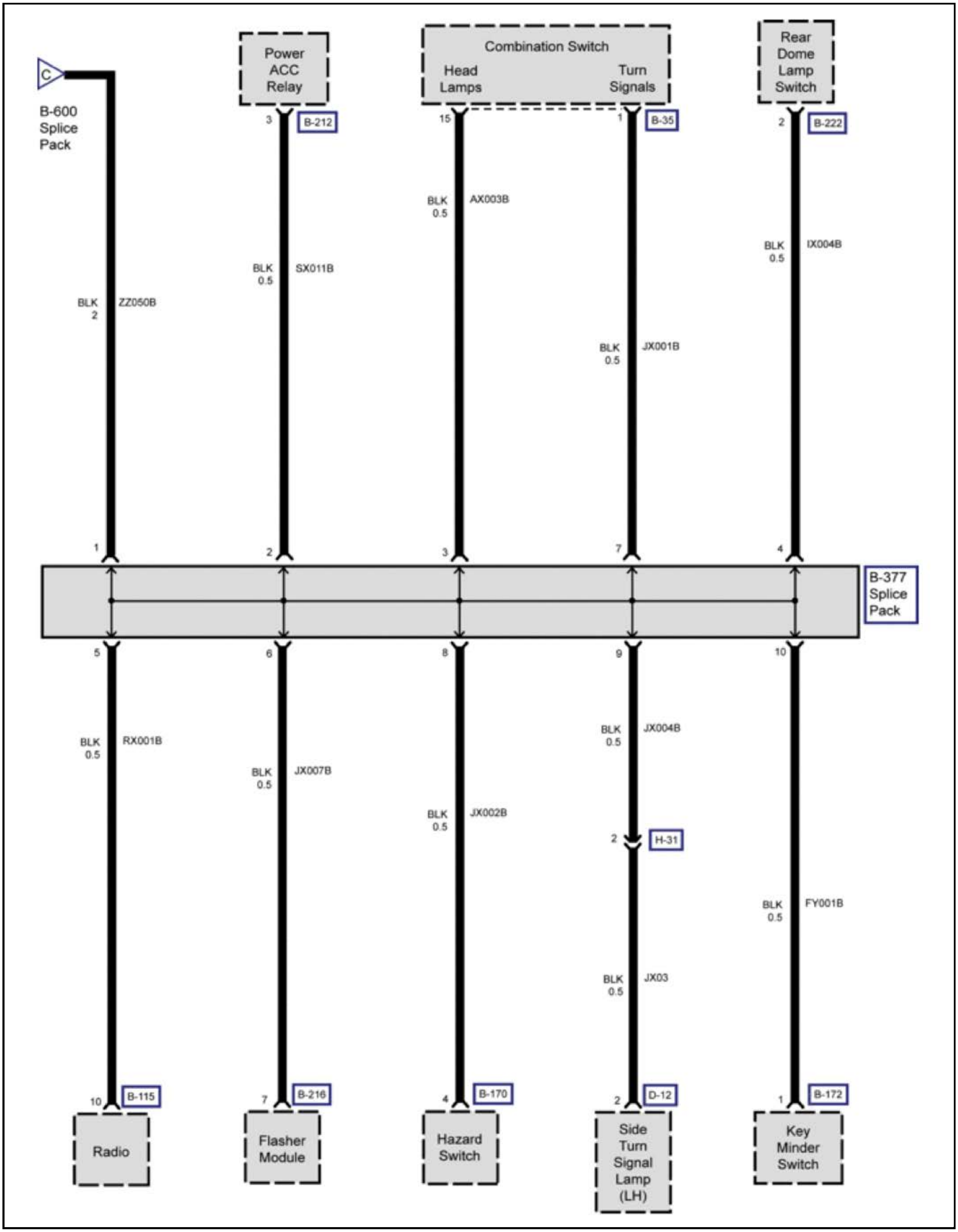
4890853

Ground Distribution Schematics (B-51 (B-600 Splice Pack))


Data Link Connector (DLC)
4
B-31
BLK 0.5
ZZ009B
5
Cigar Lighter Relay (Upper ACC Socket)
5
B-272
BLK 0.5
SX010B
4
Seat Belt Switch
2
N-15
BLK 0.5
MX06
1
H-85
BLK 0.5
MX024B
3
Wiper/ Exhaust Brake Switch
9
B-188
BLK 0.5
FX002B
2
C
B-377 Splice Pack
BLK 2
ZZ050B
1
B-600 Splice Pack
10
BLK 2
ZZ051B
B-601 Splice Pack
B
9
BLK 0.5
VX005B
4
B-240
Door Lock Switch
8
BLK 0.5
VX003B
5
H-31
BLK 0.5
VX103
5
D-5
Front Door Lock Motor (LH)
7
BLK 0.5
HX001B
5
B-158
A/C Switch
6
BLK 0.5
HX007B
5
B-189
Electronic Thermostat

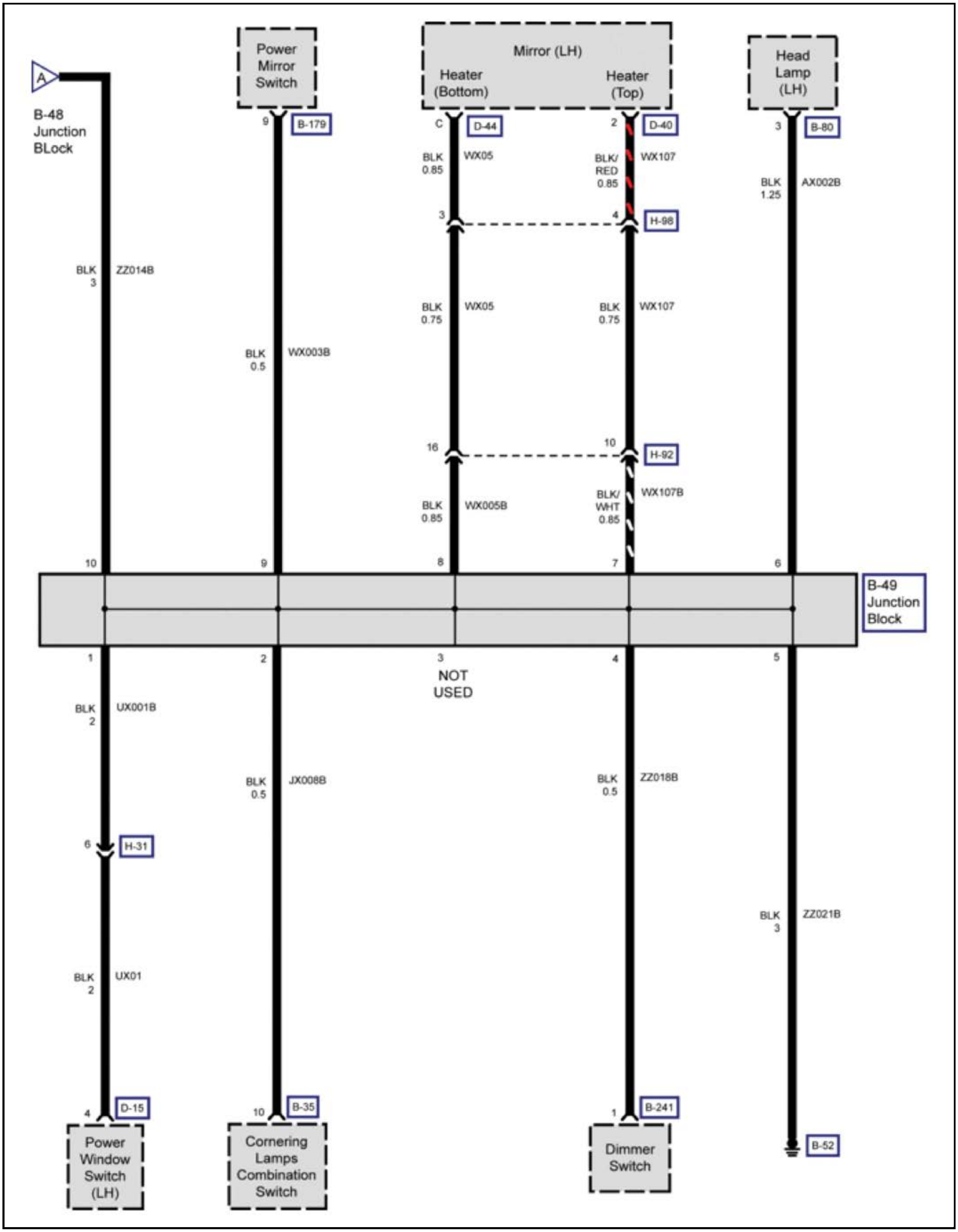
4890862

Ground Distribution Schematics (B-51 (B-377 Splice Pack))


C
B-600 Splice Pack
Power ACC Relay
Combination Switch
Head Lamps
Turn Signals
Rear Dome Lamp Switch
3
B-212
15
1
B-35
2
B-222
BLK 0.5
AX003B
BLK 0.5
IX004B
BLK 0.5
SX011B
BLK 2
ZZ050B
BLK 0.5
JX001B
1
2
3
7
4
B-377 Splice Pack
5
6
8
9
10
BLK 0.5
JX004B
BLK 0.5
RX001B
BLK 0.5
JX007B
BLK 0.5
JX002B
2
H-31
BLK 0.5
FY001B
BLK 0.5
JX03
10
B-115
7
B-216
4
B-170
2
D-12
1
B-172
Radio
Flasher Module
Hazard Switch
Side Turn Signal Lamp (LH)
Key Minder Switch

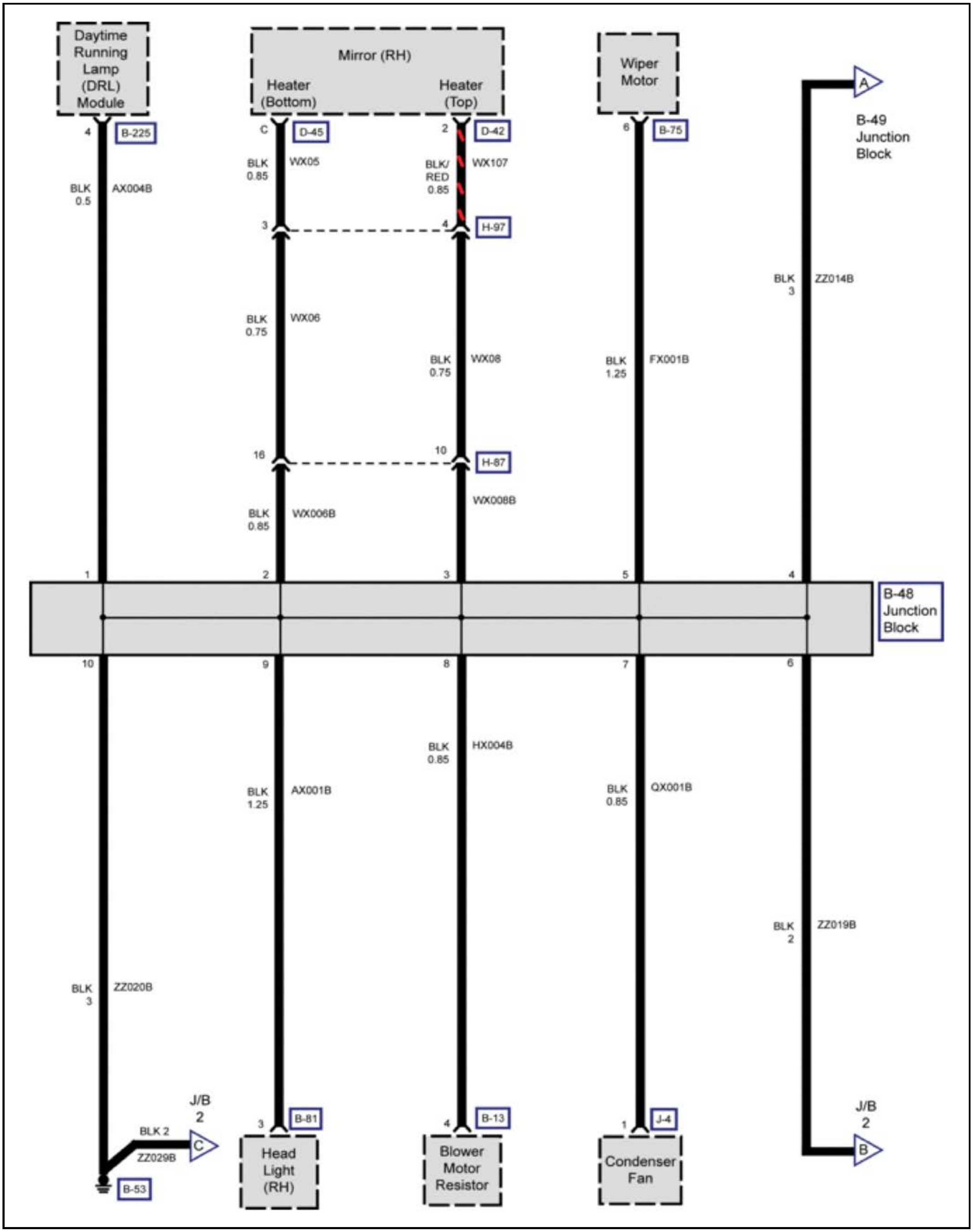
4890891

Ground Distribution Schematics (B-52 (B-49 Junction Block))


A
B-48 Junction BLock
BLK 3 ZZ014B
10
Power Mirror Switch
9 B-179
BLK 0.5 WX003B
9
Mirror (LH)
Heater (Bottom)
Heater (Top)
C D-44
BLK 0.85 WX05
3
BLK 0.75 WX05
16
BLK 0.85 WX005B
8
2 D-40
BLK/ RED 0.85 WX107
4 H-98
BLK 0.75 WX107
10 H-92
BLK/ WHT 0.85 WX107B
7
Head Lamp (LH)
3 B-80
BLK 1.25 AX002B
6
B-49 Junction Block
1
BLK 2 UX001B
6 H-31
BLK 2 UX01
4 D-15
Power Window Switch (LH)
2
BLK 0.5 JX008B
10 B-35
Cornering Lamps Combination Switch
3
NOT USED
4
BLK 0.5 ZZ018B
1 B-241
Dimmer Switch
5
BLK 3 ZZ021B
B-52

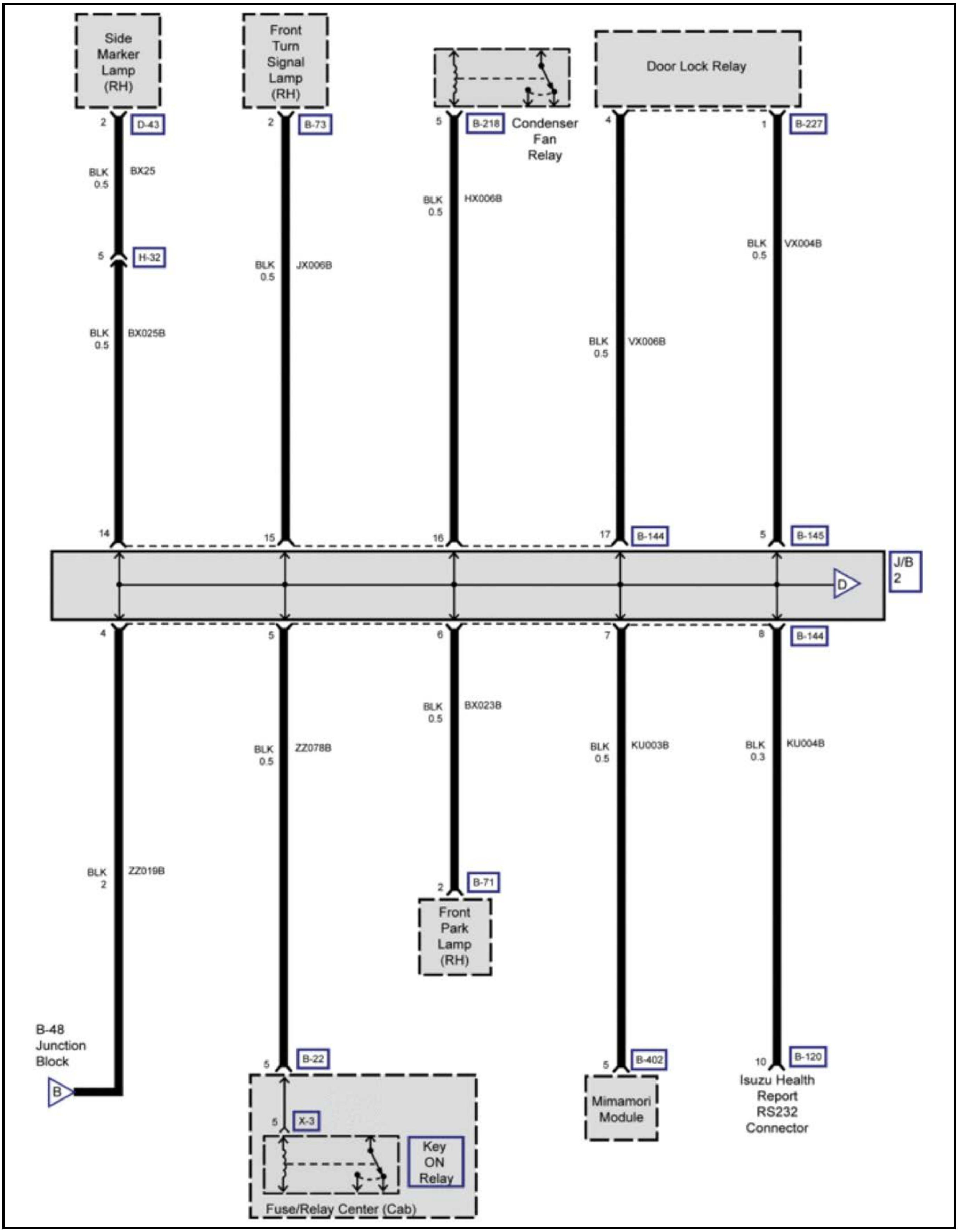
4890898

Ground Distribution Schematics (B-53 (B-48 Junction Block) 1 of 4)


Daytime Running Lamp (DRL) Module
Mirror (RH)
Heater (Bottom)
Heater (Top)
Wiper Motor
4
B-225
C
D-45
2
D-42
6
B-75
A
B-49 Junction Block
BLK 0.5
AX004B
BLK 0.85
WX05
BLK/ RED 0.85
WX107
3
4
H-97
BLK 3
ZZ014B
BLK 0.75
WX06
BLK 0.75
WX08
BLK 1.25
FX001B
16
10
H-87
BLK 0.85
WX006B
WX008B
1
2
3
5
4
B-48 Junction Block
10
9
8
7
6
BLK 0.85
HX004B
BLK 1.25
AX001B
BLK 0.85
QX001B
BLK 2
ZZ019B
BLK 3
ZZ020B
J/B 2
BLK 2
C
ZZ029B
B-53
3
B-81
Head Light (RH)
4
B-13
Blower Motor Resistor
1
J-4
Condenser Fan
J/B 2
B

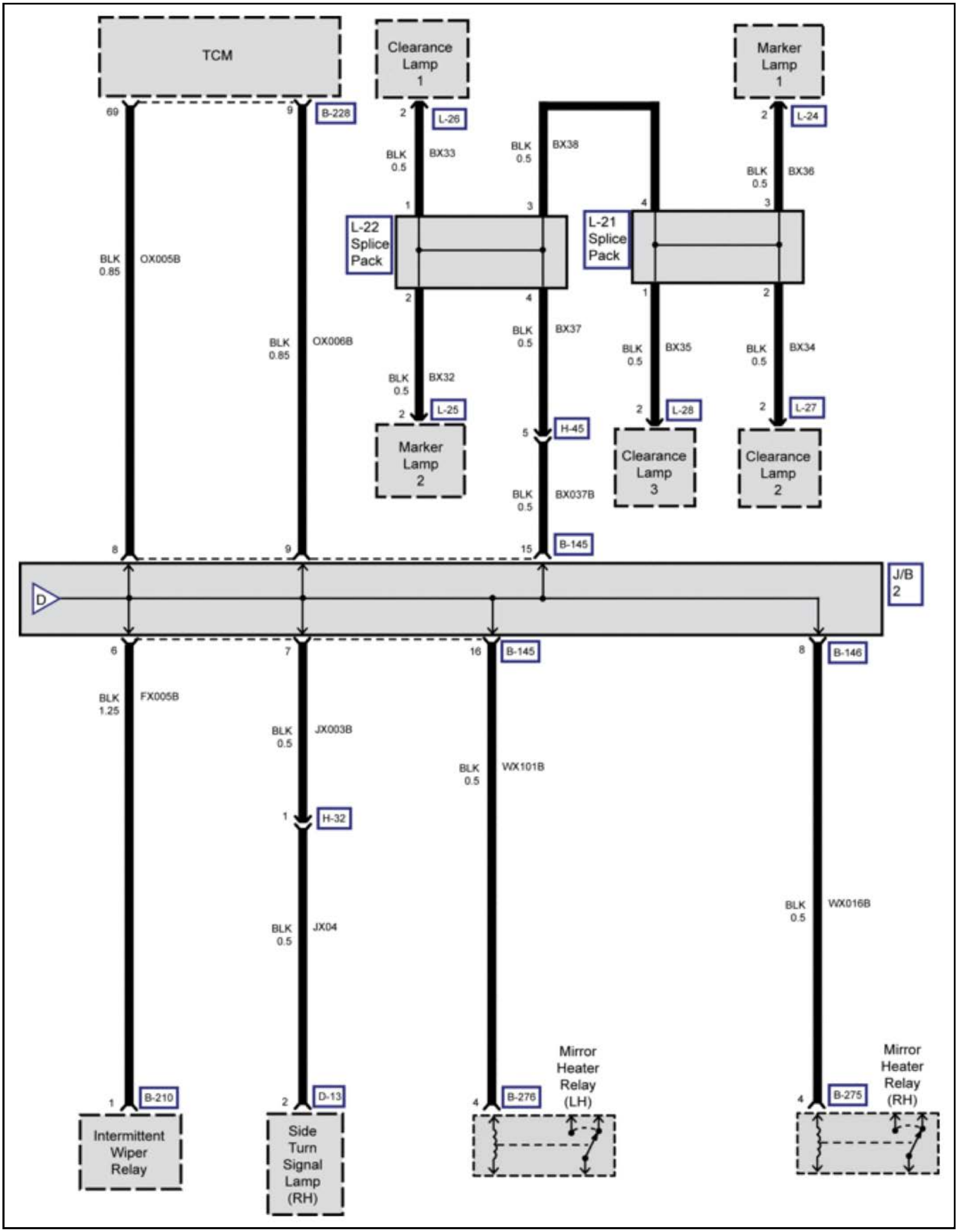
4890919

Ground Distribution Schematics (B-53 (Sub J/B 2) 2 of 4)


Side Marker Lamp (RH)
Front Turn Signal Lamp (RH)
Condenser Fan Relay
Door Lock Relay
2
D-43
2
B-73
5
B-218
4
1
B-227
BLK 0.5
BX25
5
H-32
BLK 0.5
BX025B
BLK 0.5
JX006B
BLK 0.5
HX006B
BLK 0.5
VX006B
BLK 0.5
VX004B
14
15
16
17
B-144
5
B-145
J/B 2
D
4
5
6
7
8
B-144
BLK 0.5
BX023B
BLK 0.5
ZZ078B
BLK 0.5
KU003B
BLK 0.3
KU004B
BLK 2
ZZ019B
2
B-71
Front Park Lamp (RH)
B-48 Junction Block
B
5
B-22
5
X-3
Key ON Relay
Fuse/Relay Center (Cab)
5
B-402
Mimamori Module
10
B-120
Isuzu Health Report RS232 Connector

4890923

Ground Distribution Schematics (B-53 (Sub J/B 2) 3 of 4)


TCM
Clearance Lamp 1
Marker Lamp 1
69
9
B-228
2
L-26
BLK 0.5
BX33
BLK 0.5
BX38
2
L-24
BLK 0.5
BX36
1
3
4
3
L-22 Splice Pack
L-21 Splice Pack
BLK 0.85
OX005B
2
4
1
2
BLK 0.5
BX37
BLK 0.5
BX35
BLK 0.5
BX34
BLK 0.85
OX006B
BLK 0.5
BX32
2
L-25
2
L-28
2
L-27
Marker Lamp 2
5
H-45
Clearance Lamp 3
Clearance Lamp 2
BLK 0.5
BX037B
8
9
15
B-145
J/B 2
D
6
7
16
B-145
8
B-146
BLK 1.25
FX005B
BLK 0.5
JX003B
BLK 0.5
WX101B
1
H-32
BLK 0.5
WX016B
BLK 0.5
JX04
Mirror Heater Relay (LH)
Mirror Heater Relay (RH)
1
B-210
2
D-13
4
B-276
4
B-275
Intermittent Wiper Relay
Side Turn Signal Lamp (RH)

4890932

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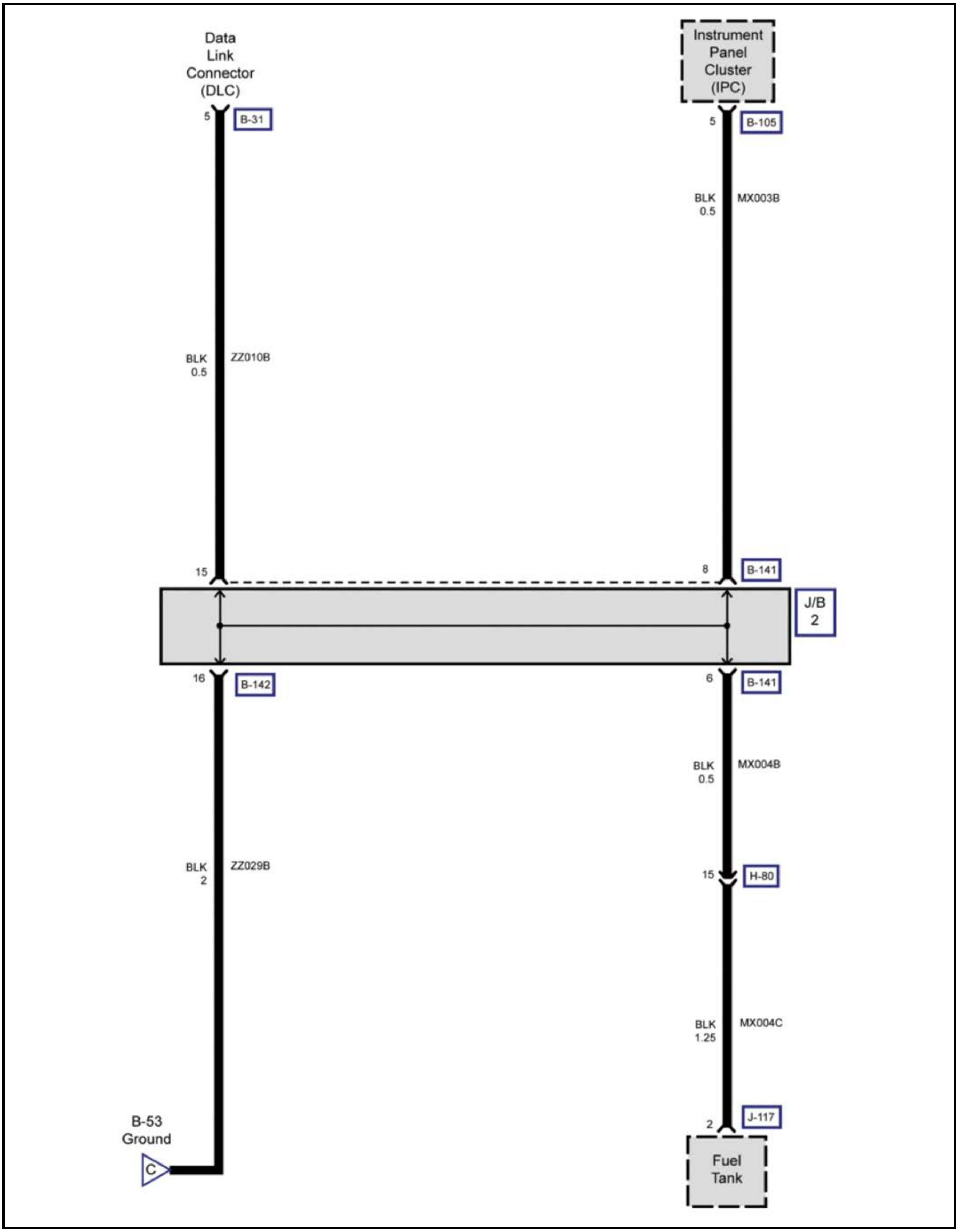
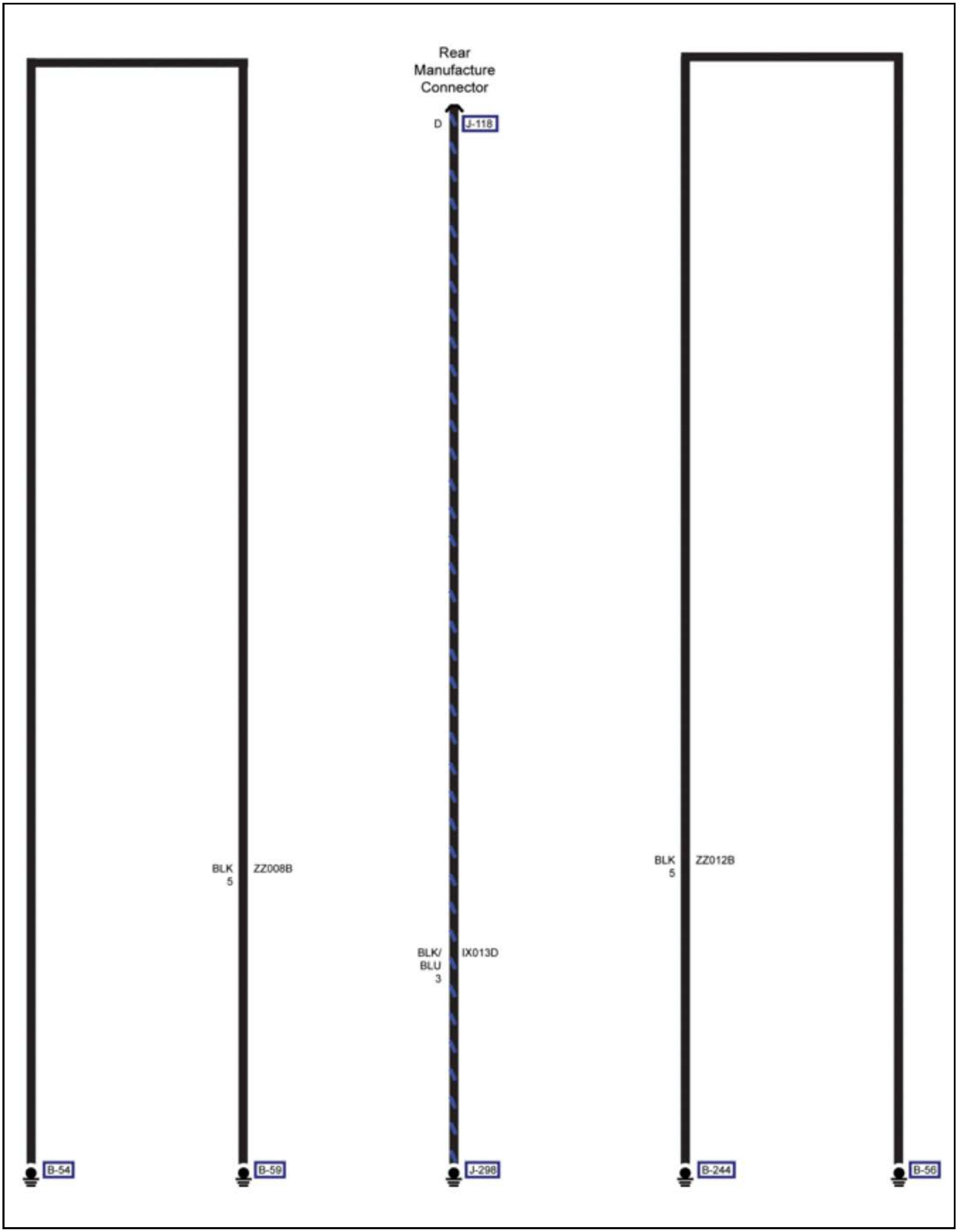
Ground Distribution Schematics (B-53 (Sub J/B 2) 4 of 4)


Data Link Connector (DLC)
5
B-31
BLK 0.5
ZZ010B
15
Instrument Panel Cluster (IPC)
5
B-105
BLK 0.5
MX003B
8
B-141
J/B 2
16
B-142
BLK 2
ZZ029B
B-53 Ground
C
6
B-141
BLK 0.5
MX004B
15
H-80
BLK 1.25
MX004C
2
J-117
Fuel Tank

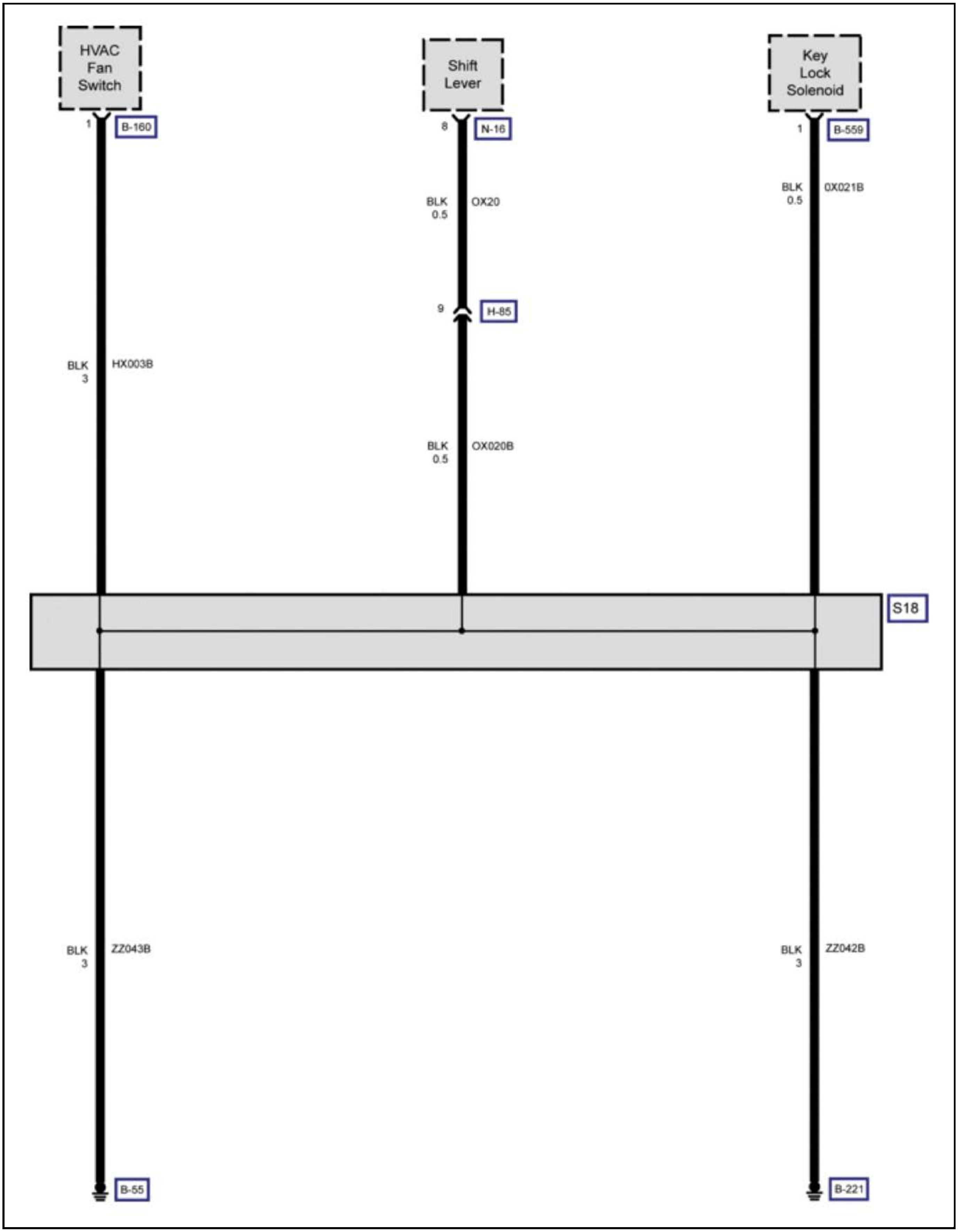
4890945

Ground Distribution Schematics (B-54, B-56, B-59, B-244)


Rear
Manufacture
Connector
D
J-118
BLK
5
ZZ008B
BLK/
BLU
3
IX013D
BLK
5
ZZ012B
B-54
B-59
J-298
B-244
B-56

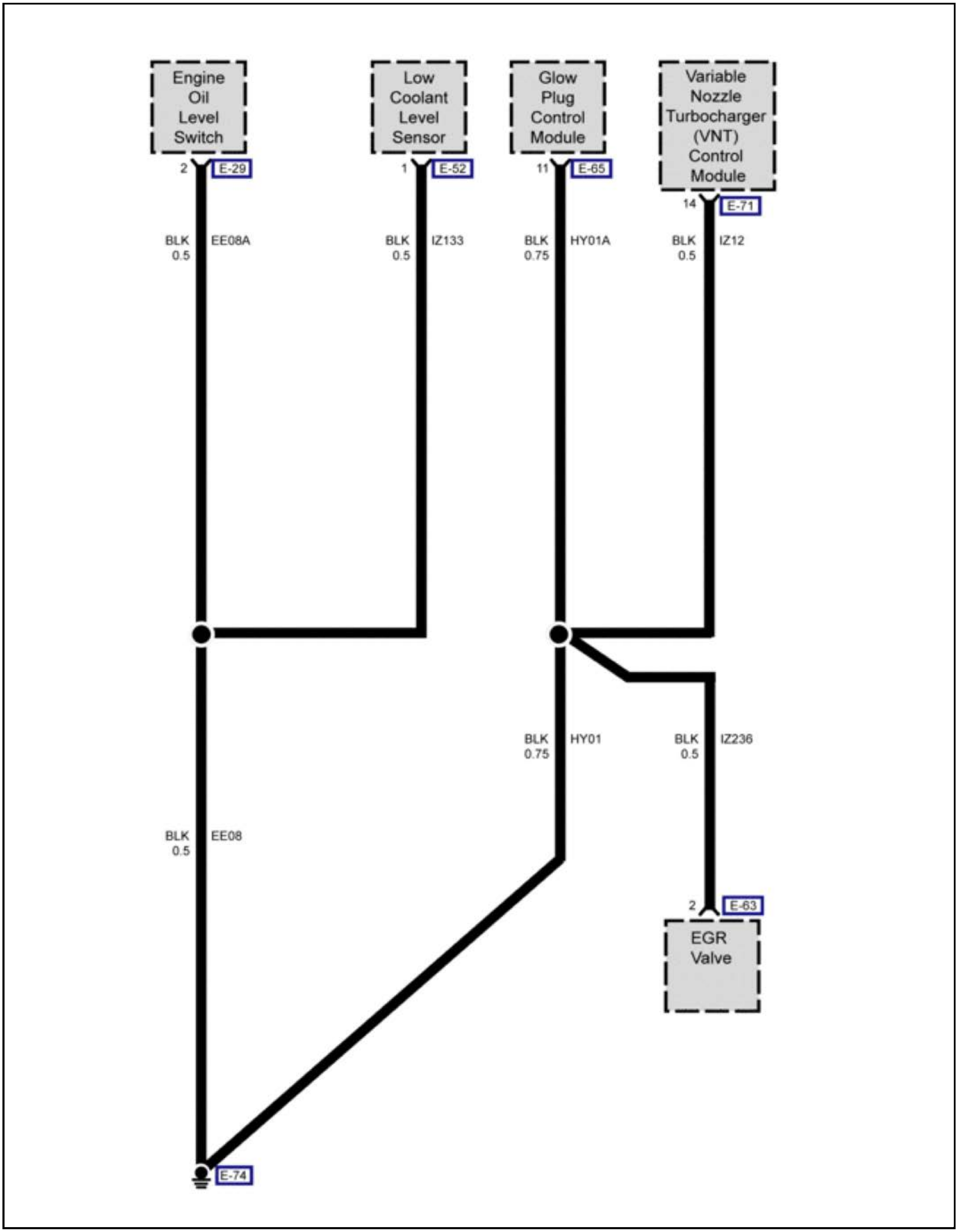
4890960

Ground Distribution Schematics (B-55, B-221 (Splice 18))


HVAC Fan Switch
1
B-160
Shift Lever
8
N-16
Key Lock Solenoid
1
B-559
BLK 0.5
OX20
BLK 0.5
0X021B
9
H-85
BLK 3
HX003B
BLK 0.5
OX020B
S18
BLK 3
ZZ043B
BLK 3
ZZ042B
B-55
B-221

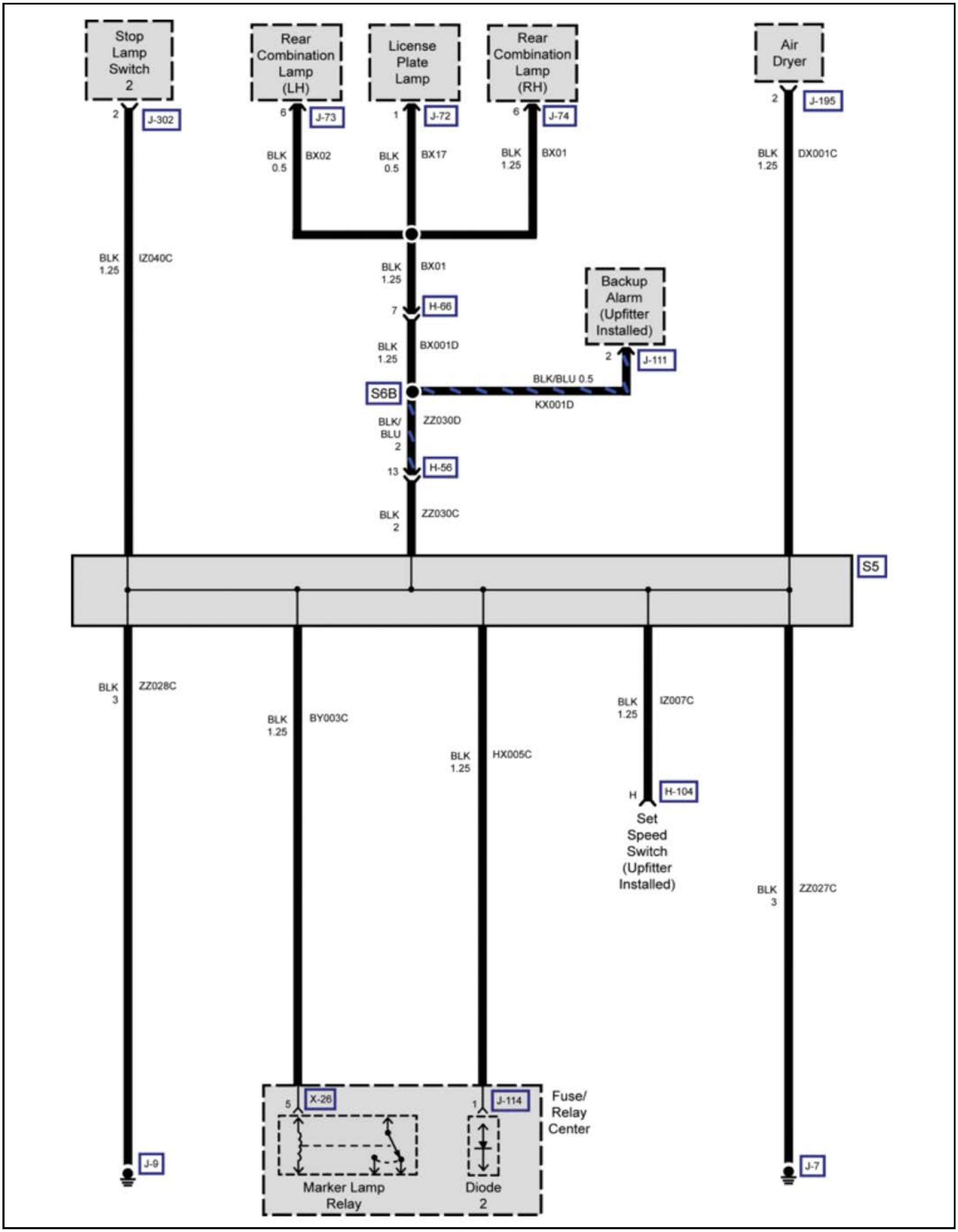
4890969

Ground Distribution Schematics (E-74)


Engine Oil Level Switch
2
E-29
BLK 0.5
EE08A
Low Coolant Level Sensor
1
E-52
BLK 0.5
IZ133
Glow Plug Control Module
11
E-65
BLK 0.75
HY01A
Variable Nozzle Turbocharger (VNT) Control Module
14
E-71
BLK 0.5
IZ12
BLK 0.75
HY01
BLK 0.5
IZ236
BLK 0.5
EE08
2
E-63
EGR Valve
E-74

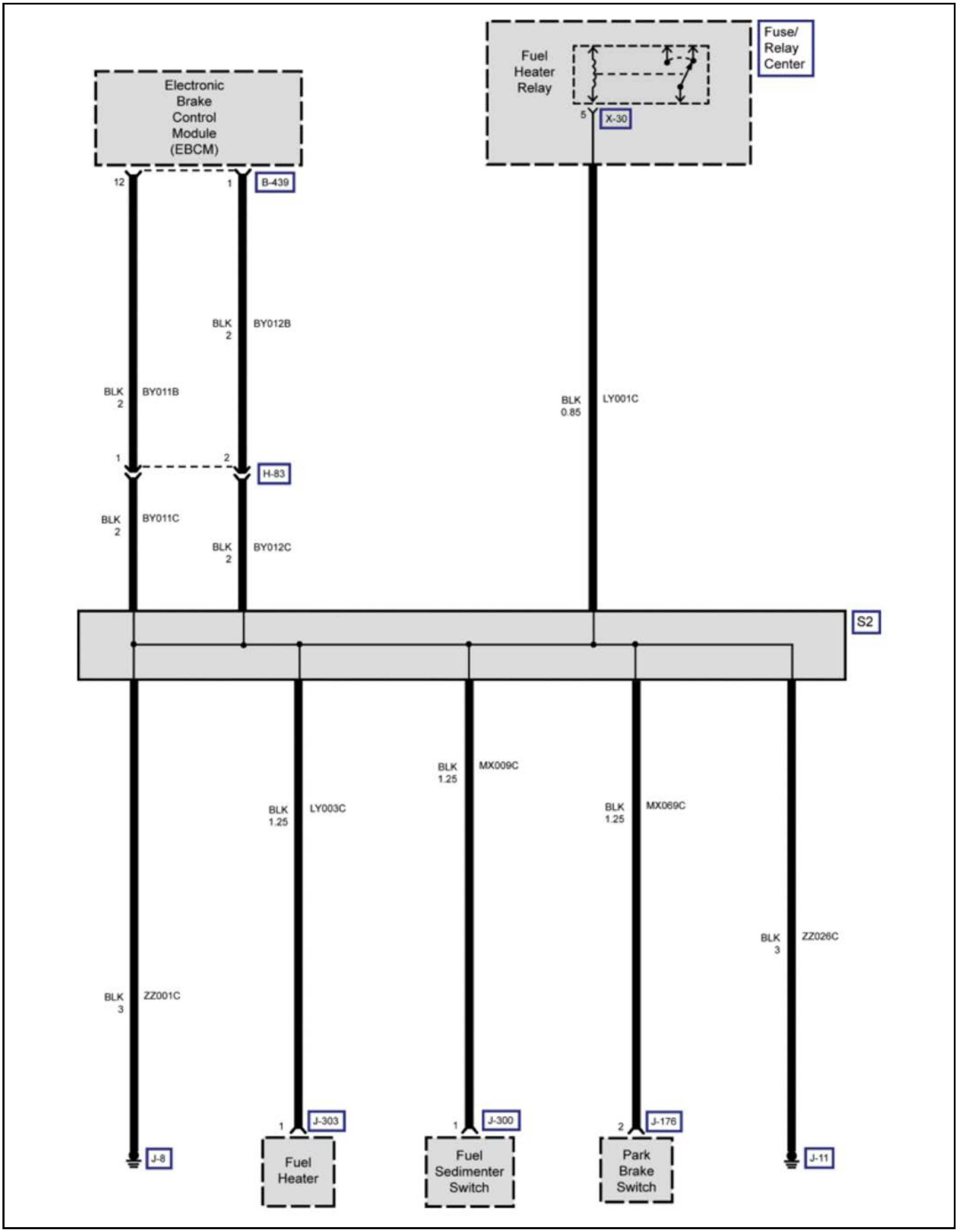
4890994

Ground Distribution Schematics (J-7, J-9 (Splice 5))


Stop Lamp Switch 2
2
J-302
BLK 1.25
IZ040C
Rear Combination Lamp (LH)
6
J-73
BLK 0.5
BX02
License Plate Lamp
1
J-72
BLK 0.5
BX17
Rear Combination Lamp (RH)
6
J-74
BLK 1.25
BX01
BLK 1.25
BX01
7
H-66
BLK 1.25
BX001D
S6B
Backup Alarm (Upfitter Installed)
2
J-111
BLK/BLU 0.5
KX001D
BLK/ BLU 2
ZZ030D
13
H-56
BLK 2
ZZ030C
Air Dryer
2
J-195
BLK 1.25
DX001C
S5
BLK 3
ZZ028C
BLK 1.25
BY003C
BLK 1.25
HX005C
BLK 1.25
IZ007C
H
H-104
Set Speed Switch (Upfitter Installed)
BLK 3
ZZ027C
5
X-26
1
J-114
Fuse/ Relay Center
Marker Lamp Relay
Diode 2
J-9
J-7

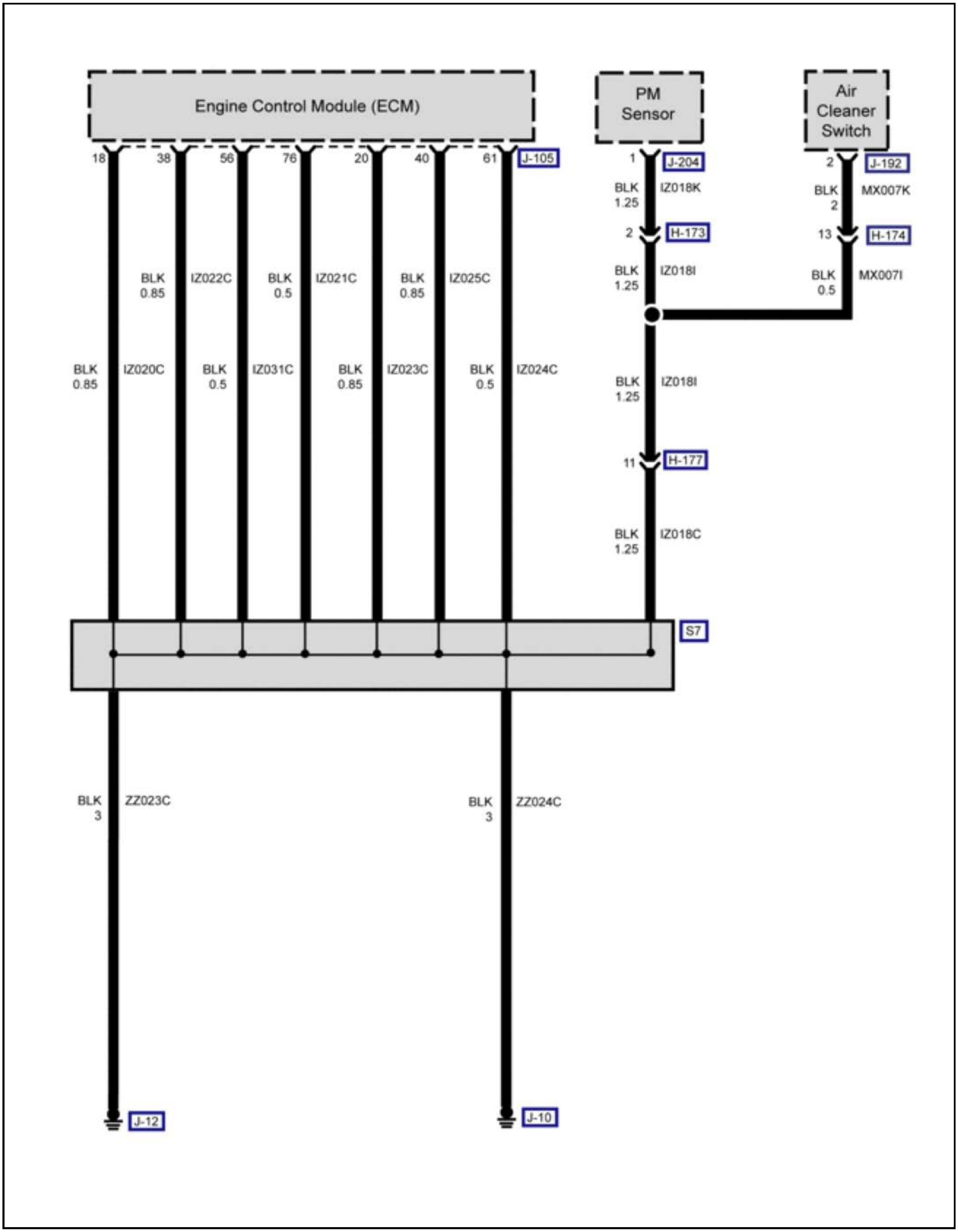
4891048

Ground Distribution Schematics (J-8, J-11 (Splice 2))


Fuel Heater Relay
Fuse/ Relay Center
5
X-30
Electronic Brake Control Module (EBCM)
12
1
B-439
BLK 2
BY012B
BLK 2
BY011B
BLK 0.85
LY001C
1
2
H-83
BLK 2
BY011C
BLK 2
BY012C
S2
BLK 1.25
MX009C
BLK 1.25
LY003C
BLK 1.25
MX069C
BLK 3
ZZ026C
BLK 3
ZZ001C
1
J-303
1
J-300
2
J-176
J-8
Fuel Heater
Fuel Sedimenter Switch
Park Brake Switch
J-11

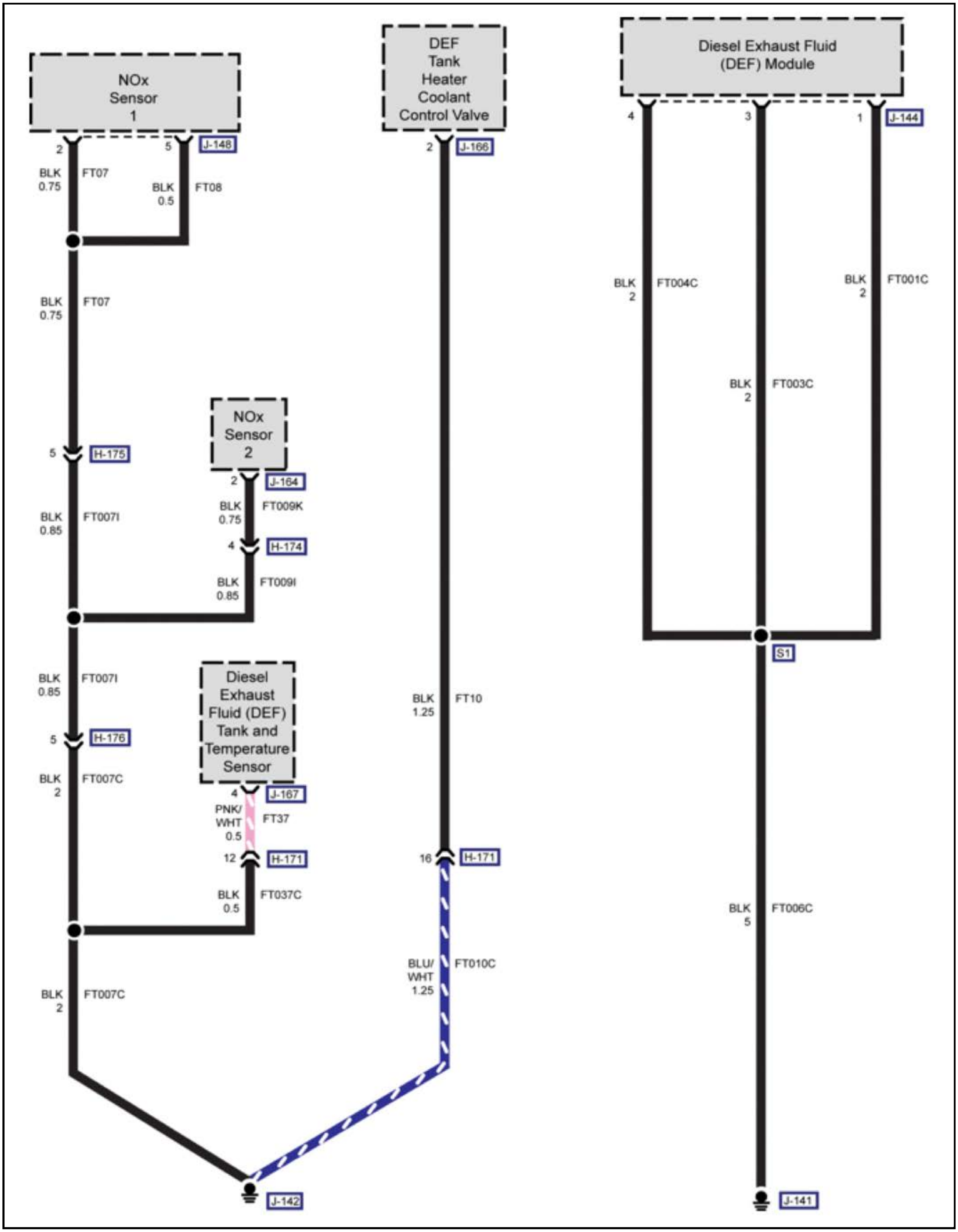
4891077

Ground Distribution Schematics (J-10, J-12 (Splice 7))


Engine Control Module (ECM)
PM Sensor
Air Cleaner Switch
18
38
56
76
20
40
61
J-105
1
J-204
2
J-192
BLK 1.25
IZ018K
BLK 2
MX007K
2
H-173
13
H-174
BLK 0.85
IZ022C
BLK 0.5
IZ021C
BLK 0.85
IZ025C
BLK 1.25
IZ018I
BLK 0.5
MX007I
BLK 0.85
IZ020C
BLK 0.5
IZ031C
BLK 0.85
IZ023C
BLK 0.5
IZ024C
BLK 1.25
IZ018I
11
H-177
BLK 1.25
IZ018C
S7
BLK 3
ZZ023C
BLK 3
ZZ024C
J-12
J-10

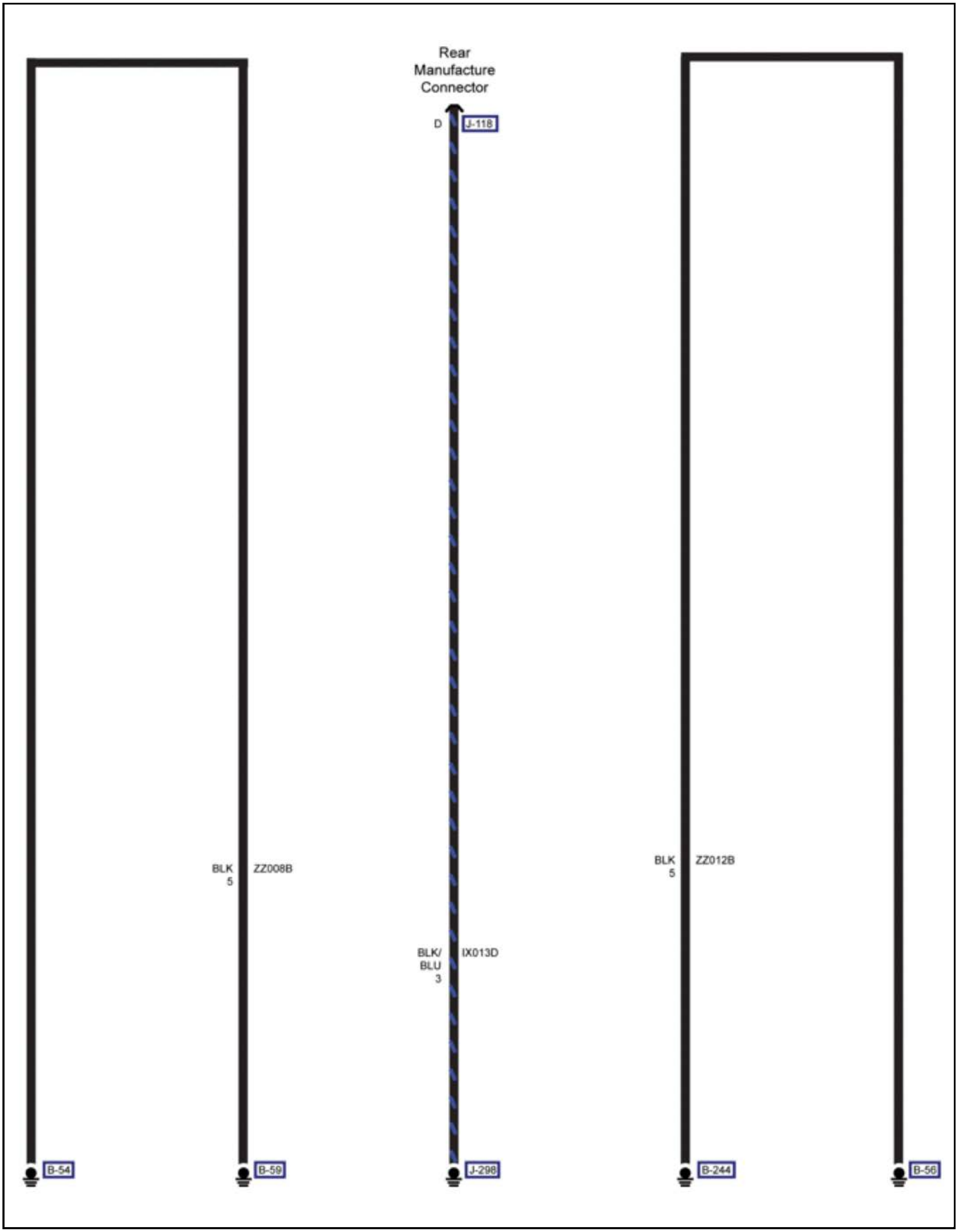
4891088

Ground Distribution Schematics (J-141, J-142 (Splice 1))


NOx Sensor 1
2
5
J-148
BLK 0.75
FT07
BLK 0.5
FT08
BLK 0.75
FT07
5
H-175
NOx Sensor 2
2
J-164
BLK 0.75
FT009K
4
H-174
BLK 0.85
FT009I
BLK 0.85
FT007I
BLK 0.85
FT007I
5
H-176
BLK 2
FT007C
Diesel Exhaust Fluid (DEF) Tank and Temperature Sensor
4
J-167
PNK/WHT 0.5
FT37
12
H-171
BLK 0.5
FT037C
BLK 2
FT007C
J-142
DEF Tank Heater Coolant Control Valve
2
J-166
BLK 1.25
FT10
16
H-171
BLU/WHT 1.25
FT010C
Diesel Exhaust Fluid (DEF) Module
4
3
1
J-144
BLK 2
FT004C
BLK 2
FT003C
BLK 2
FT001C
S1
BLK 5
FT006C
J-141

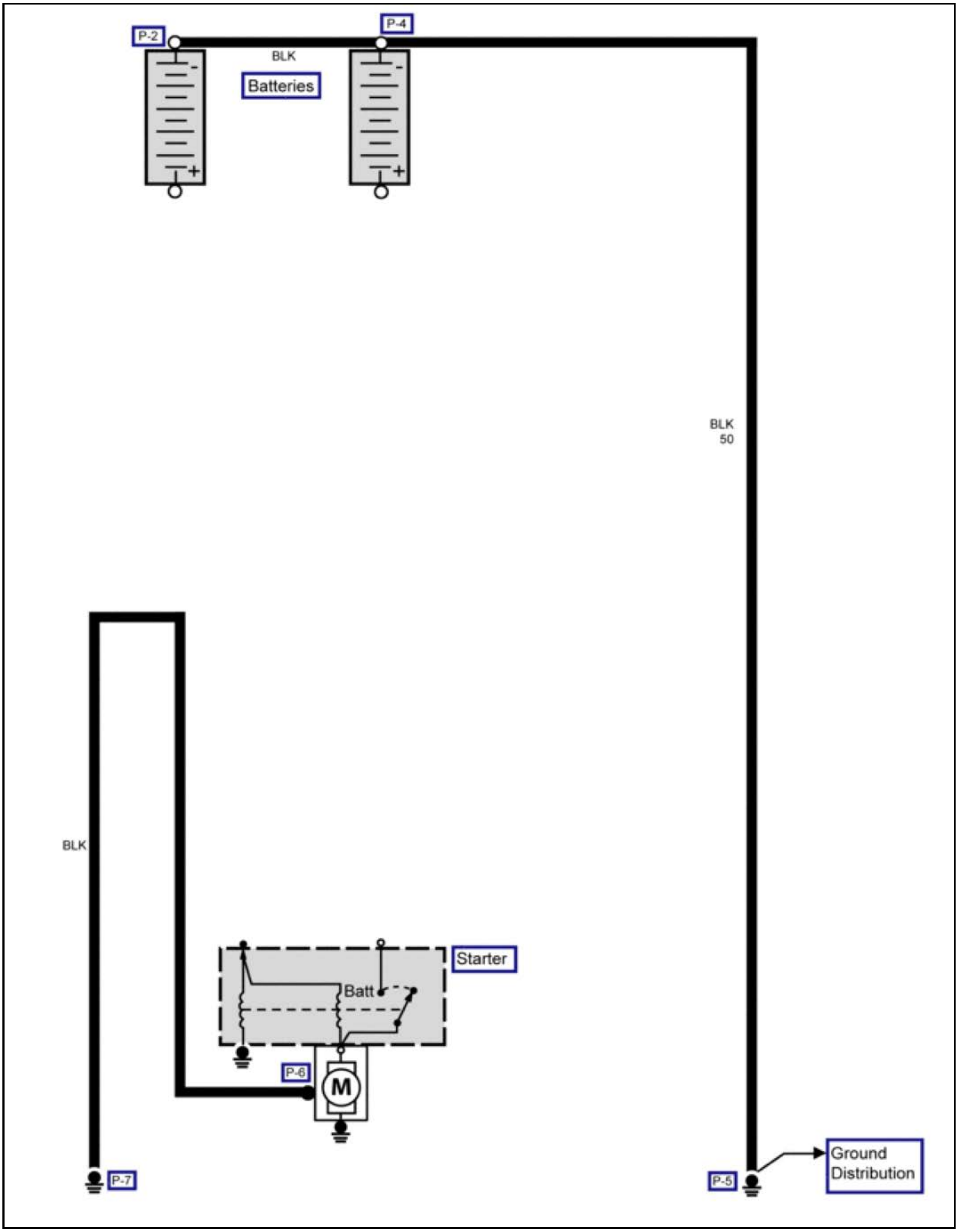
4891091

Ground Distribution Schematics (J-298)

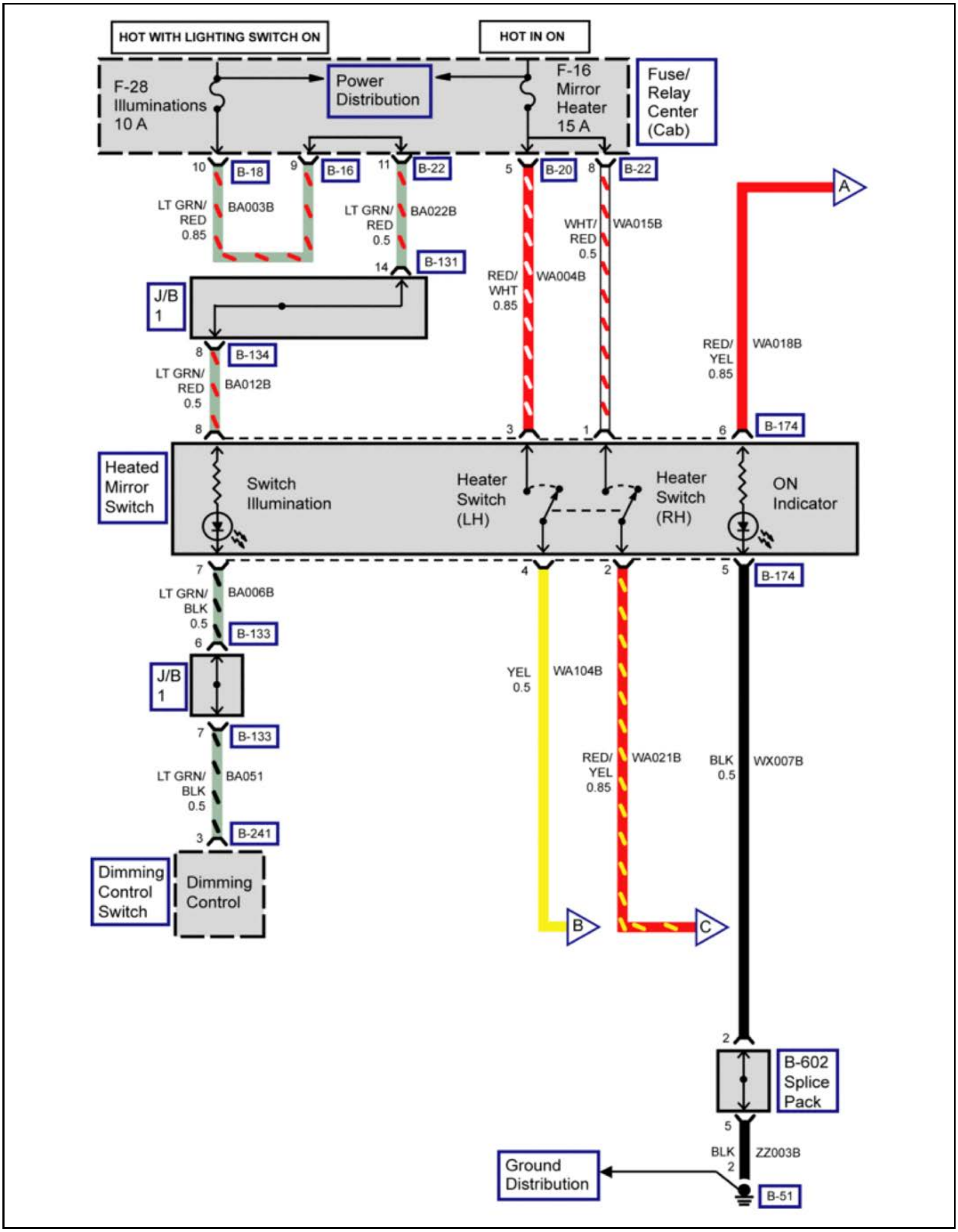

Rear
Manufacture
Connector
D
J-118
BLK
5
ZZ008B
BLK/
BLU
3
IX013D
BLK
5
ZZ012B
B-54
B-59
J-298
B-244
B-56

4891095

Ground Distribution Schematics (P-5, P-6, P-7)

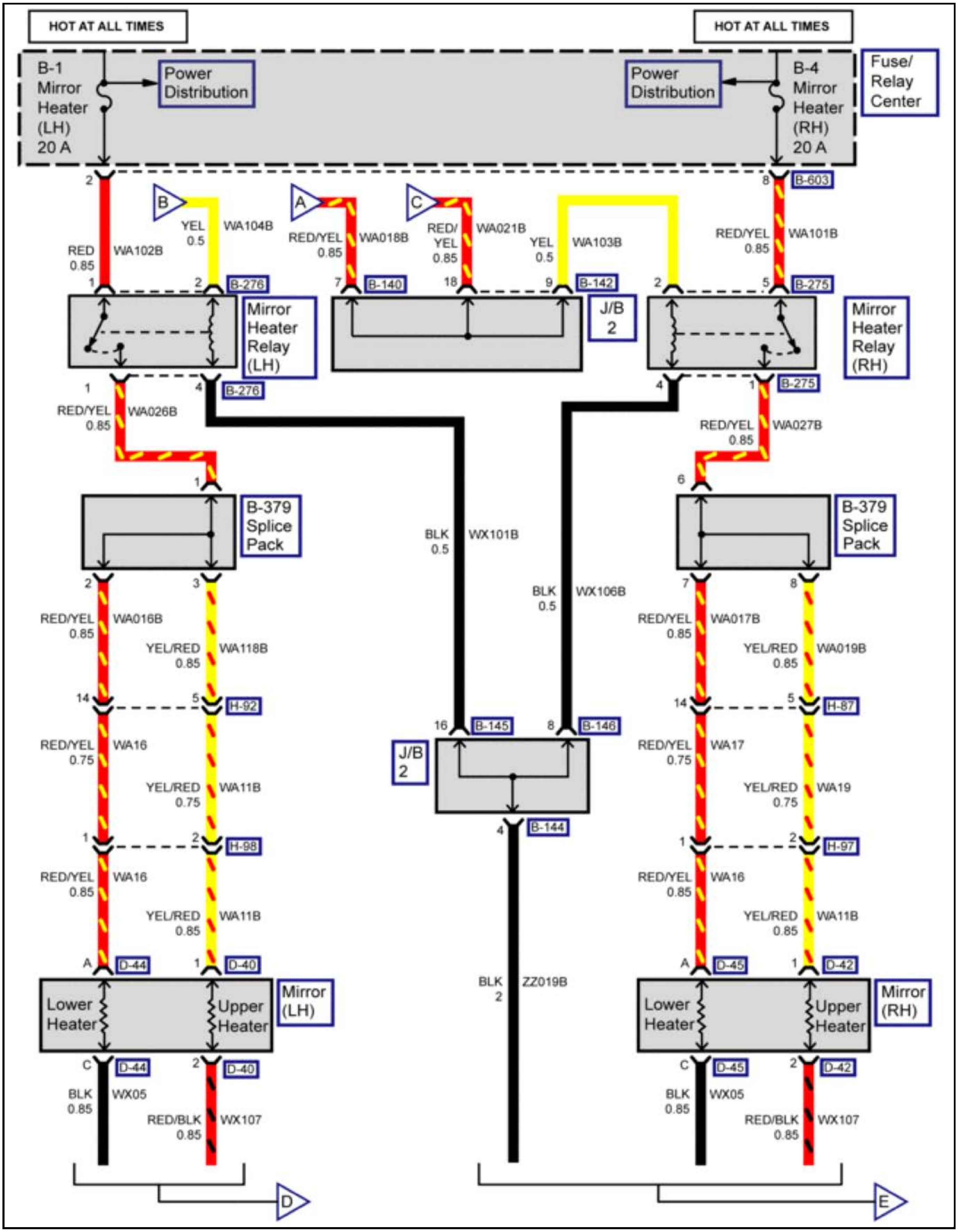

P-2
P-4
BLK
Batteries
BLK
50
BLK
Starter
Batt
P-6
M
P-7
P-5
Ground Distribution
4891110

Heated Mirror Schematics (1 of 3 (Switch))


HOT WITH LIGHTING SWITCH ON
HOT IN ON
F-28 Illuminations 10 A
Power Distribution
F-16 Mirror Heater 15 A
Fuse/ Relay Center (Cab)
10
B-18
9
B-16
11
B-22
5
B-20
8
B-22
A
LT GRN/ RED 0.85
BA003B
LT GRN/ RED 0.5
BA022B
WHT/ RED 0.5
WA015B
14
B-131
RED/ WHT 0.85
WA004B
J/B 1
8
B-134
LT GRN/ RED 0.5
BA012B
RED/ YEL 0.85
WA018B
8
3
1
6
B-174
Heated Mirror Switch
Switch Illumination
Heater Switch (LH)
Heater Switch (RH)
ON Indicator
7
4
2
5
B-174
LT GRN/ BLK 0.5
BA006B
B-133
6
J/B 1
7
B-133
YEL 0.5
WA104B
RED/ YEL 0.85
WA021B
BLK 0.5
WX007B
LT GRN/ BLK 0.5
BA051
3
B-241
Dimming Control Switch
Dimming Control
B
C
2
B-602 Splice Pack
5
BLK
2
ZZ003B
Ground Distribution
B-51

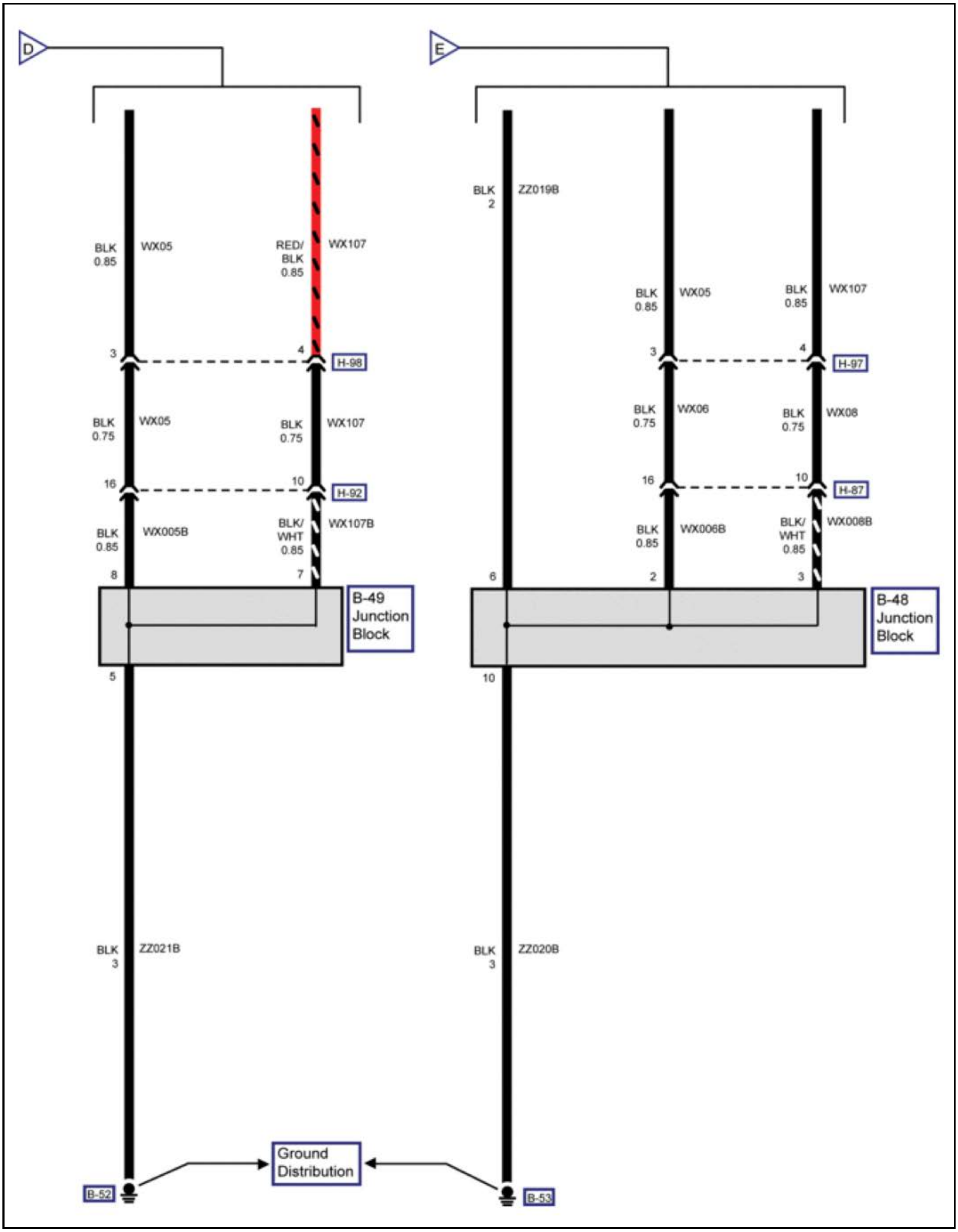
4891946

Heated Mirror Schematics (2 of 3 (Relays))


HOT AT ALL TIMES
HOT AT ALL TIMES
B-1
Mirror
Heater
(LH)
20 A
Power
Distribution
Power
Distribution
B-4
Mirror
Heater
(RH)
20 A
Fuse/
Relay
Center
2
8
B-603
B
A
C
YEL
0.5
WA104B
RED/YEL
0.85
WA018B
RED/
YEL
0.85
WA021B
YEL
0.5
WA103B
RED/YEL
0.85
WA101B
RED
0.85
WA102B
1
2
B-276
7
B-140
18
9
B-142
2
5
B-275
Mirror
Heater
Relay
(LH)
J/B
2
Mirror
Heater
Relay
(RH)
1
4
B-276
4
1
B-275
RED/YEL
0.85
WA026B
RED/YEL
0.85
WA027B
1
6
B-379
Splice
Pack
B-379
Splice
Pack
BLK
0.5
WX101B
BLK
0.5
WX106B
2
3
7
8
RED/YEL
0.85
WA016B
YEL/RED
0.85
WA118B
RED/YEL
0.85
WA017B
YEL/RED
0.85
WA019B
14
5
H-92
14
5
H-87
16
B-145
8
B-146
J/B
2
RED/YEL
0.75
WA16
YEL/RED
0.75
WA11B
RED/YEL
0.75
WA17
YEL/RED
0.75
WA19
1
2
H-98
1
2
H-97
4
B-144
RED/YEL
0.85
WA16
YEL/RED
0.85
WA11B
RED/YEL
0.85
WA16
YEL/RED
0.85
WA11B
A
D-44
1
D-40
A
D-45
1
D-42
Lower
Heater
Upper
Heater
Mirror
(LH)
BLK
2
ZZ019B
Lower
Heater
Upper
Heater
Mirror
(RH)
C
D-44
2
D-40
C
D-45
2
D-42
BLK
0.85
WX05
RED/BLK
0.85
WX107
BLK
0.85
WX05
RED/BLK
0.85
WX107
D
E

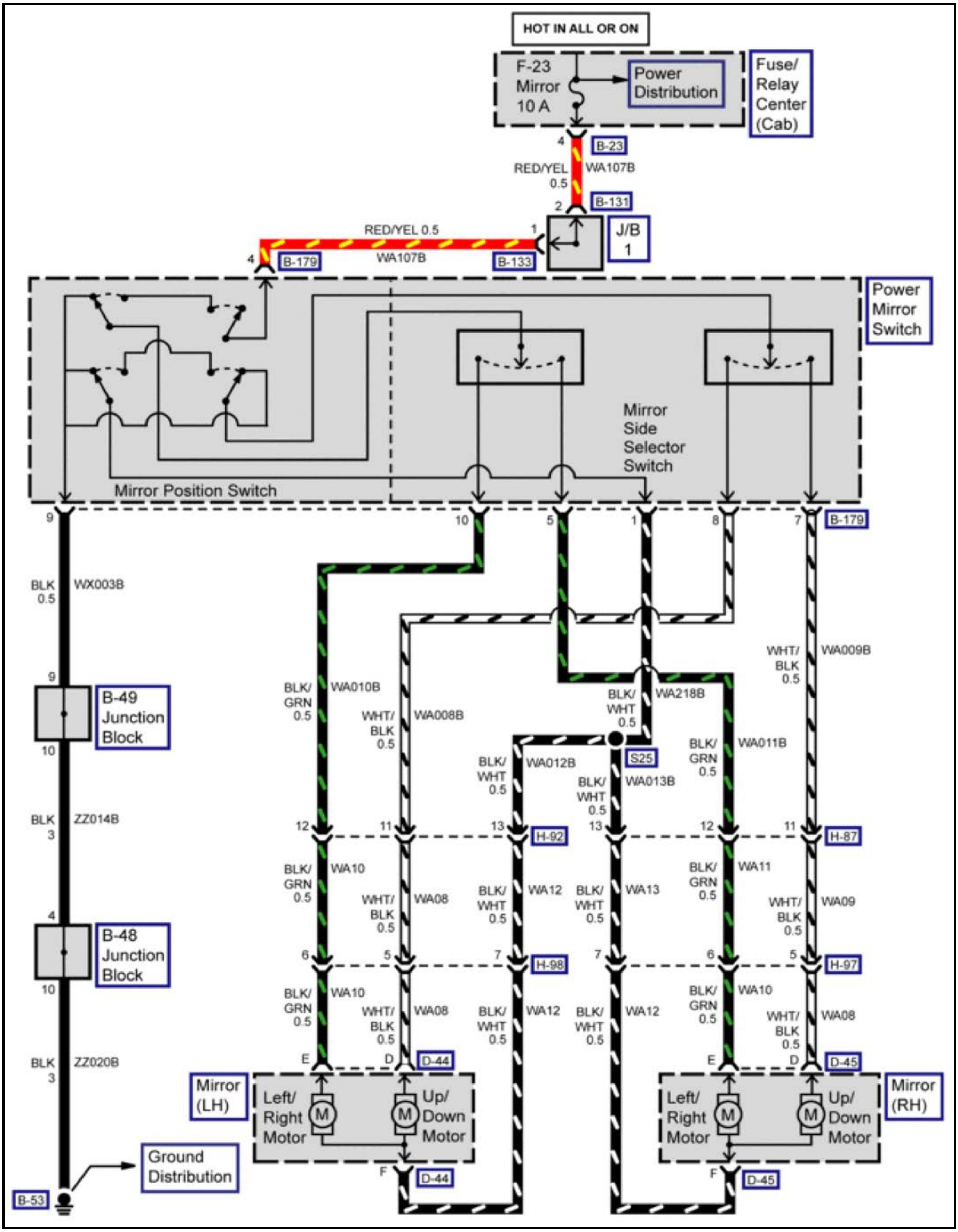
4891958

Heated Mirror Schematics (3 of 3 (Grounds))


D
BLK 0.85
WX05
RED/ BLK 0.85
WX107
3
4
H-98
BLK 0.75
WX05
BLK 0.75
WX107
16
10
H-92
BLK 0.85
WX005B
BLK/ WHT 0.85
WX107B
8
7
B-49 Junction Block
5
BLK 3
ZZ021B
B-52
Ground Distribution
E
BLK 2
ZZ019B
BLK 0.85
WX05
BLK 0.85
WX107
3
4
H-97
BLK 0.75
WX06
BLK 0.75
WX08
16
10
H-87
BLK 0.85
WX006B
BLK/ WHT 0.85
WX008B
6
2
3
B-48 Junction Block
10
BLK 3
ZZ020B
B-53

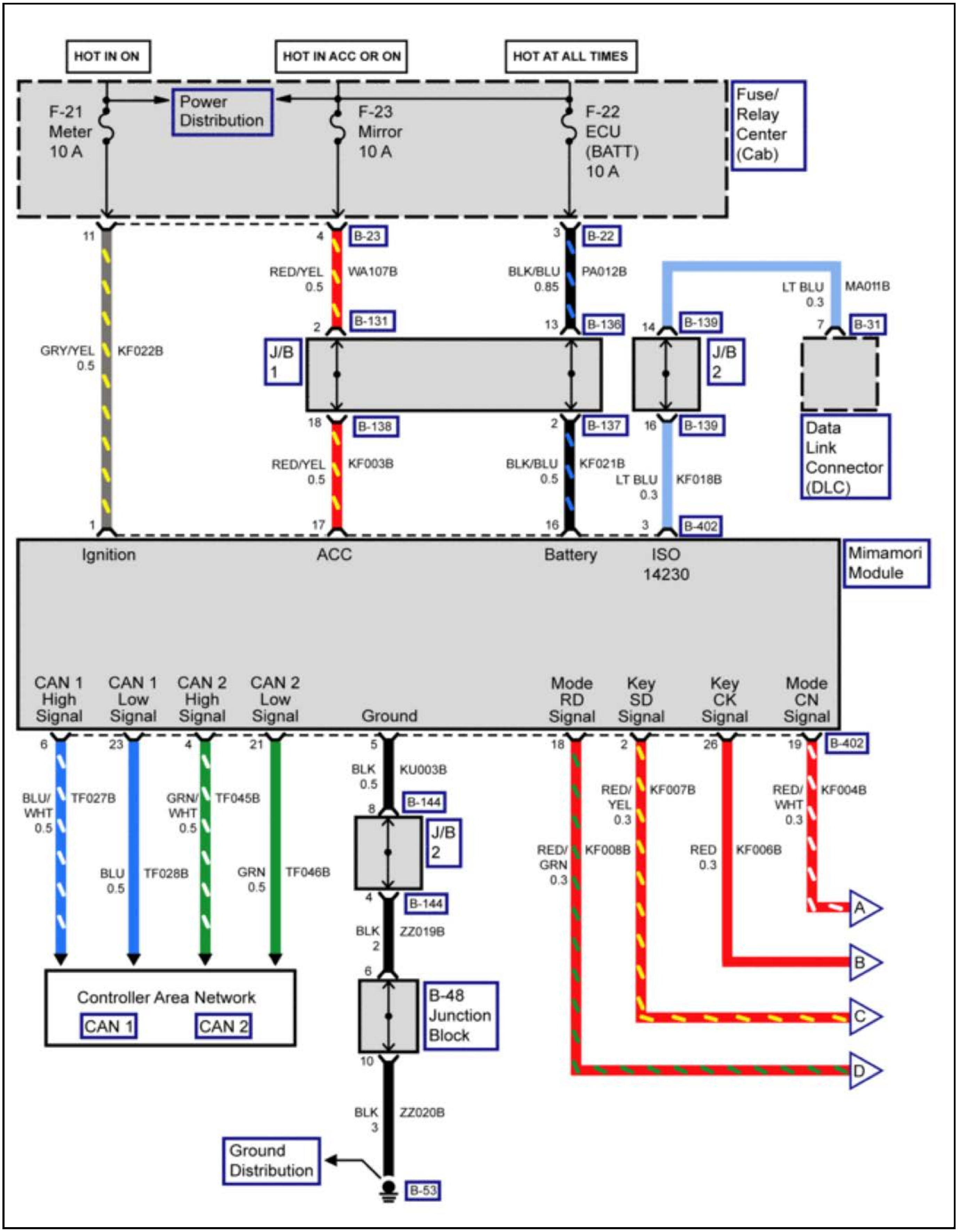
4891968

Heated Mirror Schematics (Power Mirrors)


HOT IN ALL OR ON
F-23
Mirror
10 A
Power Distribution
Fuse/ Relay Center (Cab)
4
B-23
RED/YEL 0.5
WA107B
2
B-131
1
J/B 1
RED/YEL 0.5
WA107B
4
B-179
B-133
Power Mirror Switch
Mirror Side Selector Switch
Mirror Position Switch
9
10
5
1
8
7
B-179
BLK 0.5
WX003B
9
B-49 Junction Block
10
BLK 3
ZZ014B
4
B-48 Junction Block
10
BLK 3
ZZ020B
B-53
Ground Distribution
BLK/ GRN 0.5
WA010B
WHT/ BLK 0.5
WA008B
BLK/ WHT 0.5
WA218B
S25
BLK/ WHT 0.5
WA012B
BLK/ WHT 0.5
WA013B
BLK/ GRN 0.5
WA011B
WHT/ BLK 0.5
WA009B
12
11
13
H-92
13
12
11
H-87
BLK/ GRN 0.5
WA10
WHT/ BLK 0.5
WA08
BLK/ WHT 0.5
WA12
BLK/ WHT 0.5
WA13
BLK/ GRN 0.5
WA11
WHT/ BLK 0.5
WA09
6
5
7
H-98
7
6
5
H-97
BLK/ GRN 0.5
WA10
WHT/ BLK 0.5
WA08
BLK/ WHT 0.5
WA12
BLK/ WHT 0.5
WA12
BLK/ GRN 0.5
WA10
WHT/ BLK 0.5
WA08
E
D
D-44
E
D
D-45
Mirror (LH)
Left/ Right Motor
M
M
Up/ Down Motor
Left/ Right Motor
M
M
Up/ Down Motor
Mirror (RH)
F
D-44
F
D-45

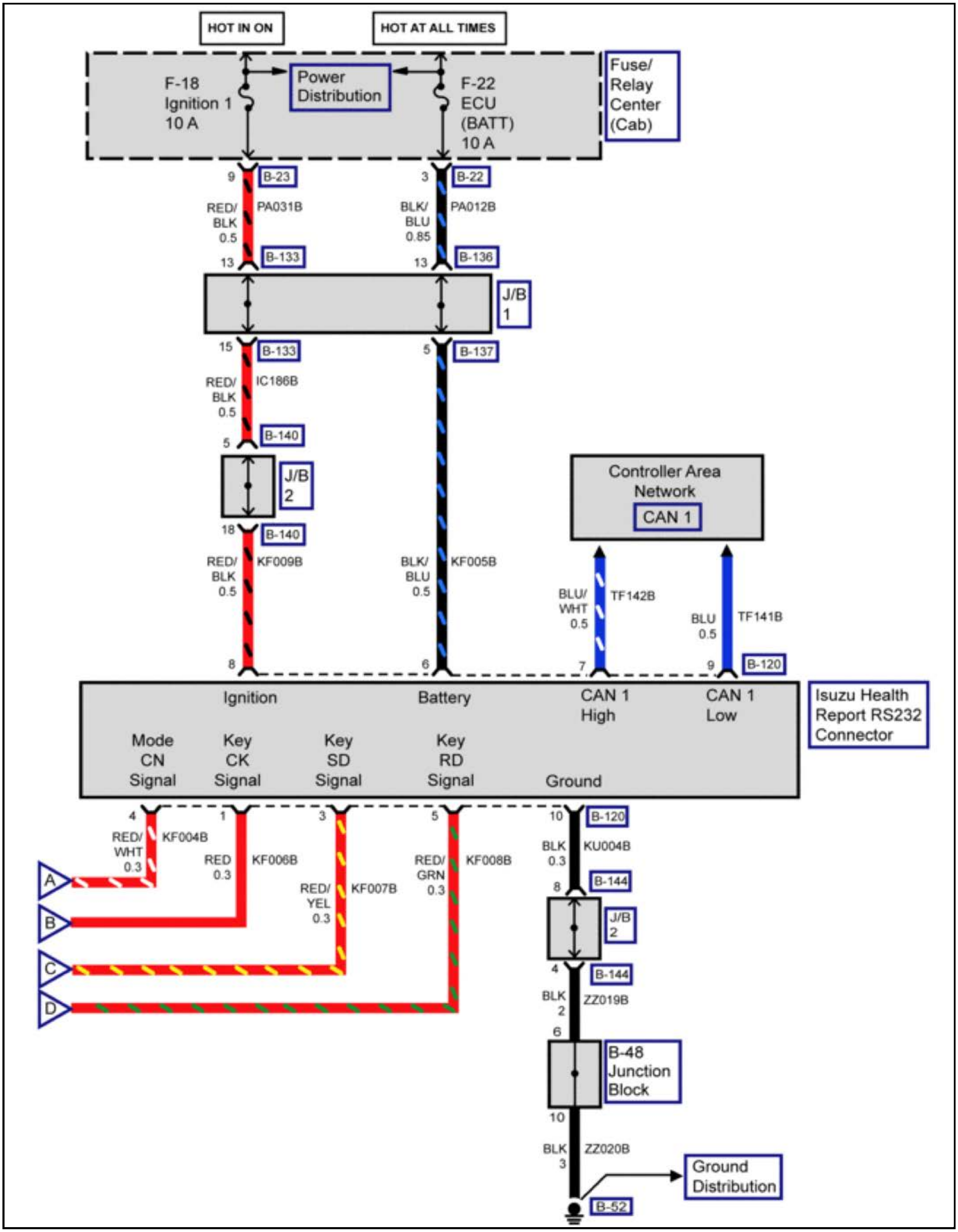
4891971

MIMAMORI Schematics (Module Powers, Grounds and Communication)


HOT IN ON
HOT IN ACC OR ON
HOT AT ALL TIMES
F-21
Meter
10 A
Power Distribution
F-23
Mirror
10 A
F-22
ECU
(BATT)
10 A
Fuse/ Relay Center (Cab)
11
GRY/YEL 0.5
KF022B
4
B-23
RED/YEL 0.5
WA107B
2
B-131
3
B-22
BLK/BLU 0.85
PA012B
13
B-136
LT BLU 0.3
MA011B
14
B-139
7
B-31
J/B 1
J/B 2
Data Link Connector (DLC)
18
B-138
RED/YEL 0.5
KF003B
2
B-137
BLK/BLU 0.5
KF021B
16
B-139
LT BLU 0.3
KF018B
1
17
16
3
B-402
Ignition
ACC
Battery
ISO 14230
Mimamori Module
CAN 1 High Signal
CAN 1 Low Signal
CAN 2 High Signal
CAN 2 Low Signal
Ground
Mode RD Signal
Key SD Signal
Key CK Signal
Mode CN Signal
6
23
4
21
5
18
2
26
19
B-402
BLU/ WHT 0.5
TF027B
BLU 0.5
TF028B
GRN/ WHT 0.5
TF045B
GRN 0.5
TF046B
BLK 0.5
KU003B
8
B-144
J/B 2
4
B-144
BLK 2
ZZ019B
6
B-48 Junction Block
10
BLK 3
ZZ020B
Ground Distribution
B-53
RED/ GRN 0.3
KF008B
RED/ YEL 0.3
KF007B
RED 0.3
KF006B
RED/ WHT 0.3
KF004B
A
B
C
D
Controller Area Network
CAN 1
CAN 2

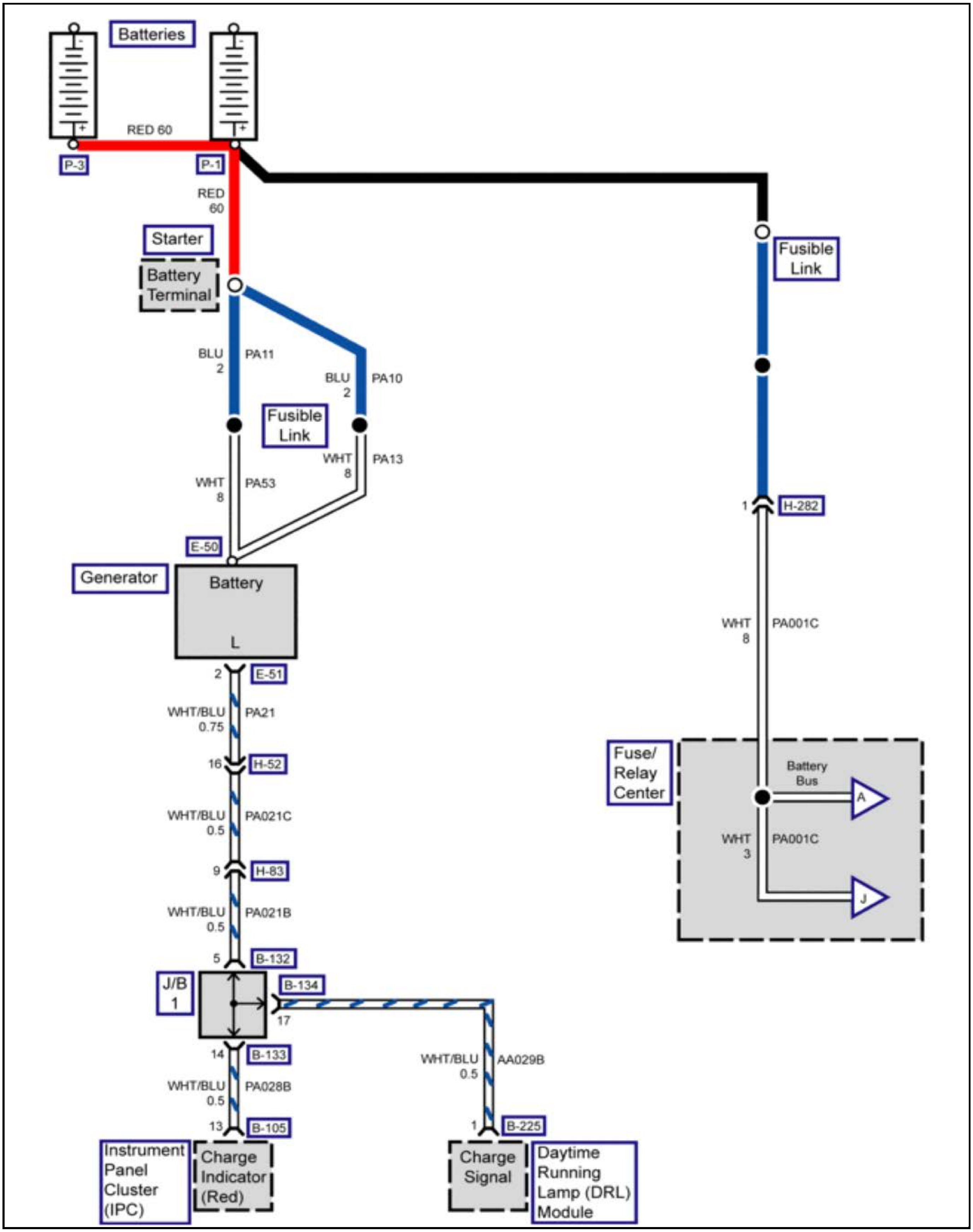
4892298

MIMAMORI Schematics (Health Report RS232 Connector)


HOT IN ON
HOT AT ALL TIMES
F-18
Ignition 1
10 A
Power Distribution
F-22
ECU
(BATT)
10 A
Fuse/ Relay Center (Cab)
9
B-23
3
B-22
RED/ BLK 0.5
PA031B
BLK/ BLU 0.85
PA012B
13
B-133
13
B-136
J/B 1
15
B-133
5
B-137
RED/ BLK 0.5
IC186B
B-140
5
J/B 2
18
B-140
Controller Area Network
CAN 1
RED/ BLK 0.5
KF009B
BLK/ BLU 0.5
KF005B
BLU/ WHT 0.5
TF142B
BLU 0.5
TF141B
8
6
7
9
B-120
Ignition
Battery
CAN 1 High
CAN 1 Low
Isuzu Health Report RS232 Connector
Mode CN Signal
Key CK Signal
Key SD Signal
Key RD Signal
Ground
4
1
3
5
10
B-120
RED/ WHT 0.3
KF004B
RED 0.3
KF006B
RED/ YEL 0.3
KF007B
RED/ GRN 0.3
KF008B
BLK 0.3
KU004B
A
B
C
D
8
B-144
J/B 2
4
B-144
BLK 2
ZZ019B
6
B-48 Junction Block
10
BLK 3
ZZ020B
Ground Distribution
B-52

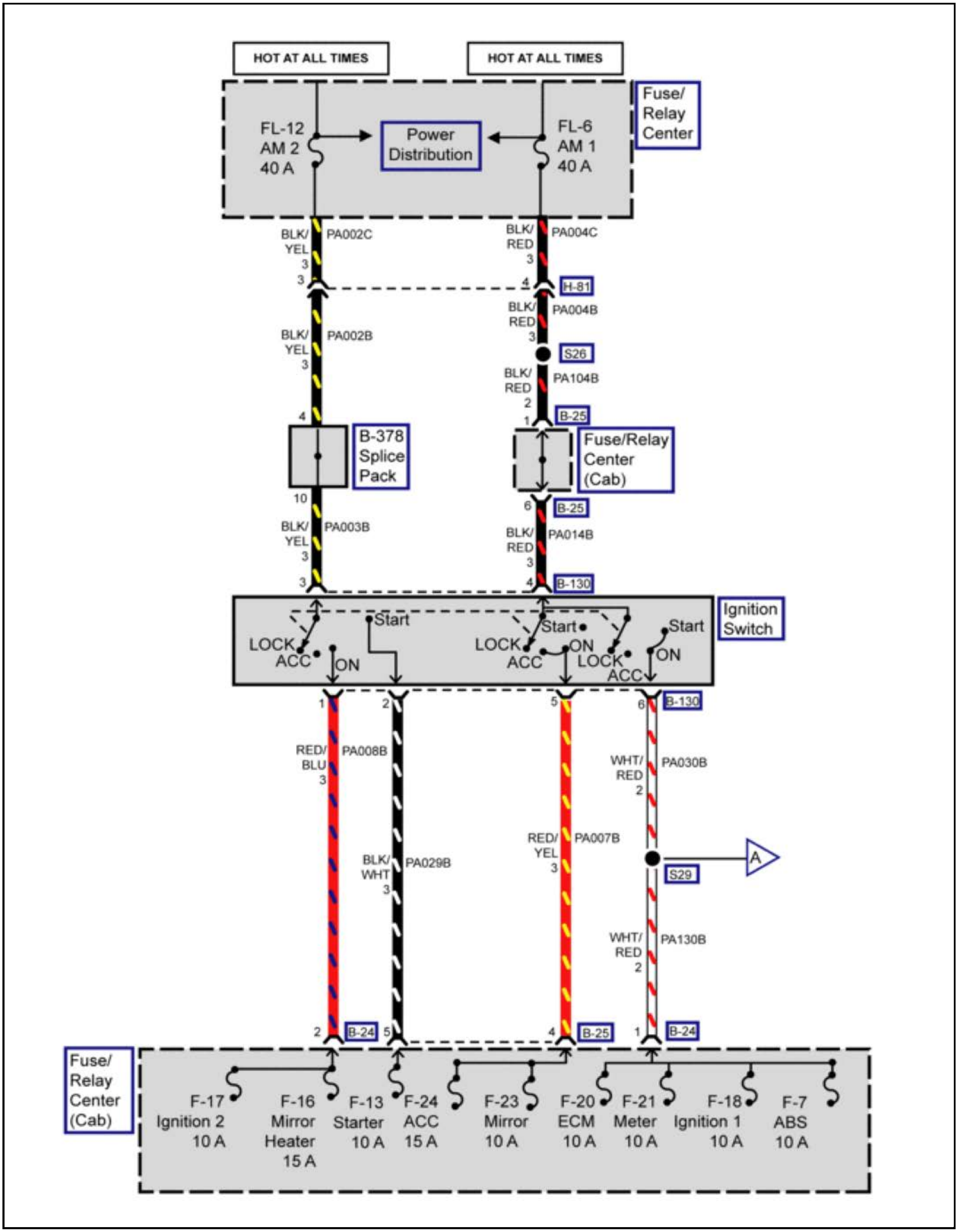
4892301

Power Distribution Schematics (Battery, Starter, Generator, Fuse/Relay Center Supply Voltage)


Batteries
RED 60
P-3
P-1
RED 60
Starter
Battery Terminal
BLU 2
PA11
BLU 2
PA10
Fusible Link
WHT 8
PA53
WHT 8
PA13
E-50
Generator
Battery
L
2
E-51
WHT/BLU 0.75
PA21
16
H-52
WHT/BLU 0.5
PA021C
9
H-83
WHT/BLU 0.5
PA021B
5
B-132
J/B 1
B-134
17
14
B-133
WHT/BLU 0.5
PA028B
13
B-105
Instrument Panel Cluster (IPC)
Charge Indicator (Red)
WHT/BLU 0.5
AA029B
1
B-225
Charge Signal
Daytime Running Lamp (DRL) Module
Fusible Link
1
H-282
WHT 8
PA001C
Fuse/ Relay Center
Battery Bus
A
WHT 3
PA001C
J

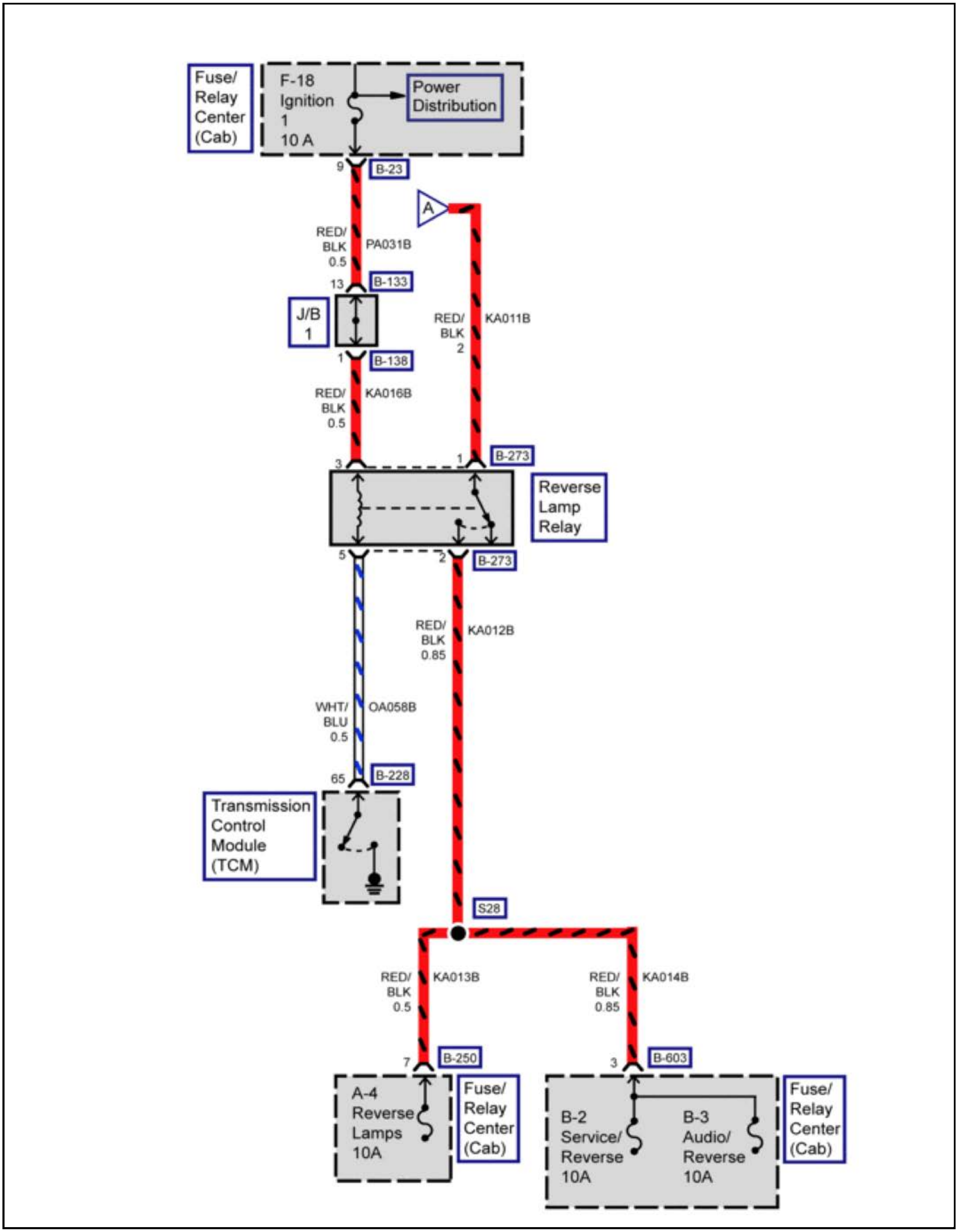
4891113

Power Distribution Schematics (Ignition Switch 1 of 2)


HOT AT ALL TIMES
HOT AT ALL TIMES
FL-12
AM 2
40 A
Power Distribution
FL-6
AM 1
40 A
Fuse/ Relay Center
BLK/ YEL 3
PA002C
BLK/ RED 3
PA004C
3
3
4
H-81
BLK/ YEL 3
PA002B
BLK/ RED 3
PA004B
S26
BLK/ RED 2
PA104B
1
B-25
4
B-378 Splice Pack
Fuse/Relay Center (Cab)
10
6
B-25
BLK/ YEL 3
PA003B
BLK/ RED 3
PA014B
3
4
B-130
Ignition Switch
LOCK
ACC
ON
Start
LOCK
ACC
Start
ON
LOCK
ACC
Start
ON
1
2
5
6
B-130
RED/ BLU 3
PA008B
BLK/ WHT 3
PA029B
RED/ YEL 3
PA007B
WHT/ RED 2
PA030B
S29
A
WHT/ RED 2
PA130B
2
B-24
5
4
B-25
1
B-24
Fuse/ Relay Center (Cab)
F-17 Ignition 2 10 A
F-16 Mirror Heater 15 A
F-13 Starter 10 A
F-24 ACC 15 A
F-23 Mirror 10 A
F-20 ECM 10 A
F-21 Meter 10 A
F-18 Ignition 1 10 A
F-7 ABS 10 A

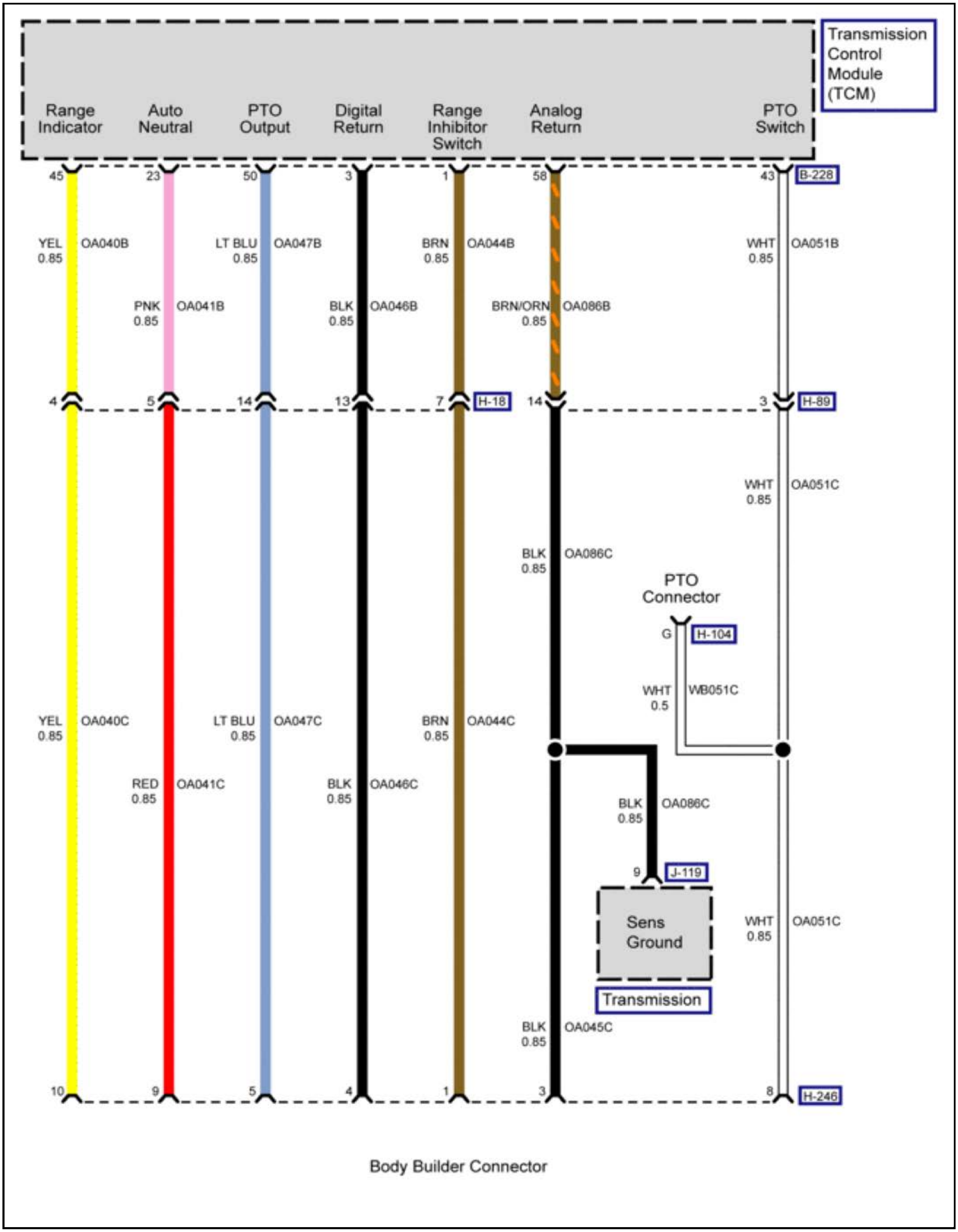
4891117

Power Distribution Schematics (Ignition Switch 2 of 2)


Fuse/
Relay
Center
(Cab)
F-18
Ignition
1
10 A
Power
Distribution
9
B-23
A
RED/
BLK
0.5
PA031B
13
B-133
J/B
1
1
B-138
RED/
BLK
0.5
KA016B
RED/
BLK
2
KA011B
3
1
B-273
Reverse
Lamp
Relay
5
2
B-273
RED/
BLK
0.85
KA012B
WHT/
BLU
0.5
OA058B
65
B-228
Transmission
Control
Module
(TCM)
S28
RED/
BLK
0.5
KA013B
RED/
BLK
0.85
KA014B
7
B-250
3
B-603
A-4
Reverse
Lamps
10A
Fuse/
Relay
Center
(Cab)
B-2
Service/
Reverse
10A
B-3
Audio/
Reverse
10A
Fuse/
Relay
Center
(Cab)

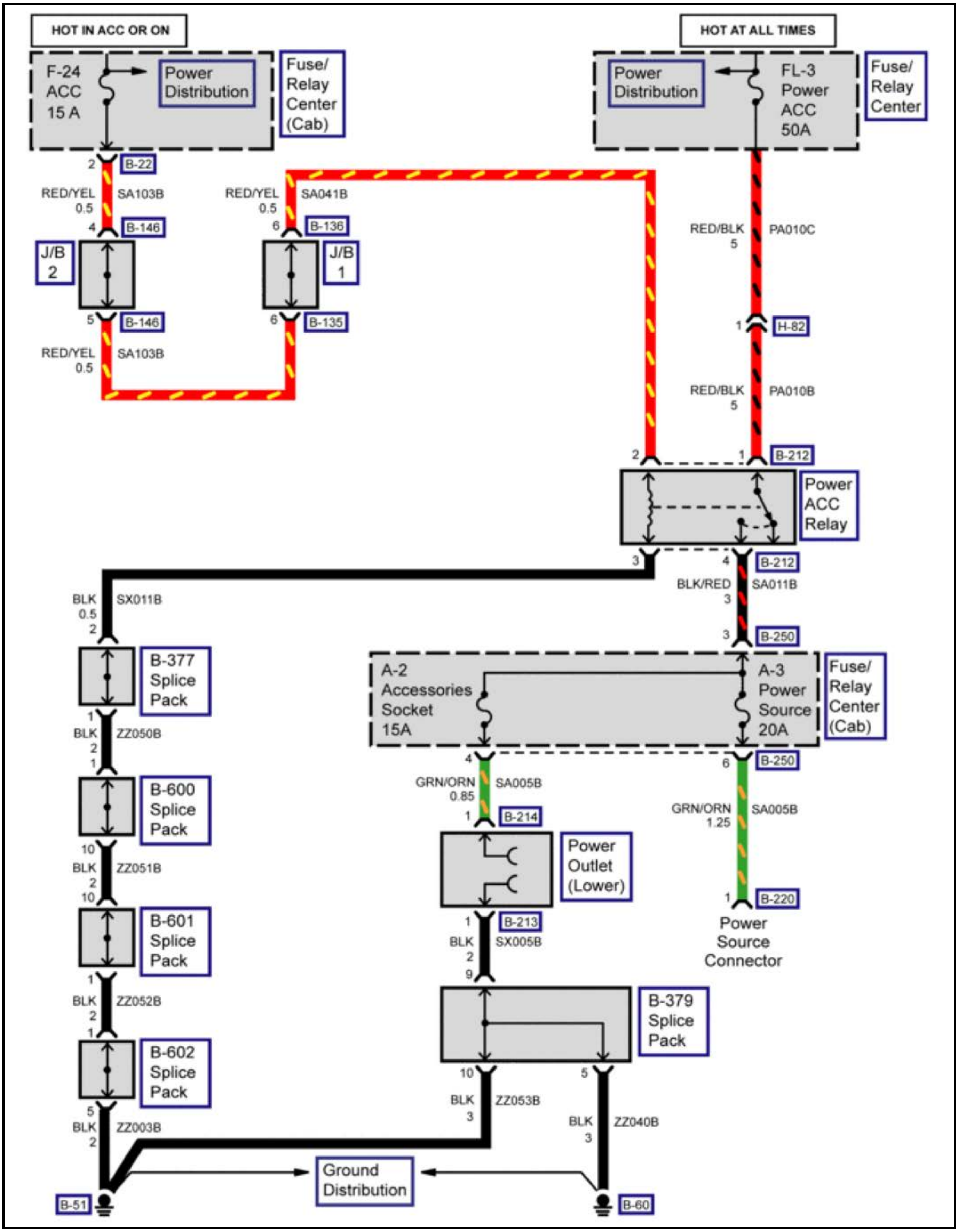
4891123

Body Builder Connector Schematics (Body Builder Connector)


Transmission Control Module (TCM)
Range Indicator
Auto Neutral
PTO Output
Digital Return
Range Inhibitor Switch
Analog Return
PTO Switch
45
23
50
3
1
58
43
B-228
YEL 0.85
OA040B
PNK 0.85
OA041B
LT BLU 0.85
OA047B
BLK 0.85
OA046B
BRN 0.85
OA044B
BRN/ORN 0.85
OA086B
WHT 0.85
OA051B
4
5
14
13
7
H-18
14
3
H-89
WHT 0.85
OA051C
BLK 0.85
OA086C
PTO Connector
G
H-104
WHT 0.5
WB051C
YEL 0.85
OA040C
LT BLU 0.85
OA047C
BRN 0.85
OA044C
RED 0.85
OA041C
BLK 0.85
OA046C
BLK 0.85
OA086C
9
J-119
Sens Ground
Transmission
WHT 0.85
OA051C
BLK 0.85
OA045C
10
9
5
4
1
3
8
H-246
Body Builder Connector

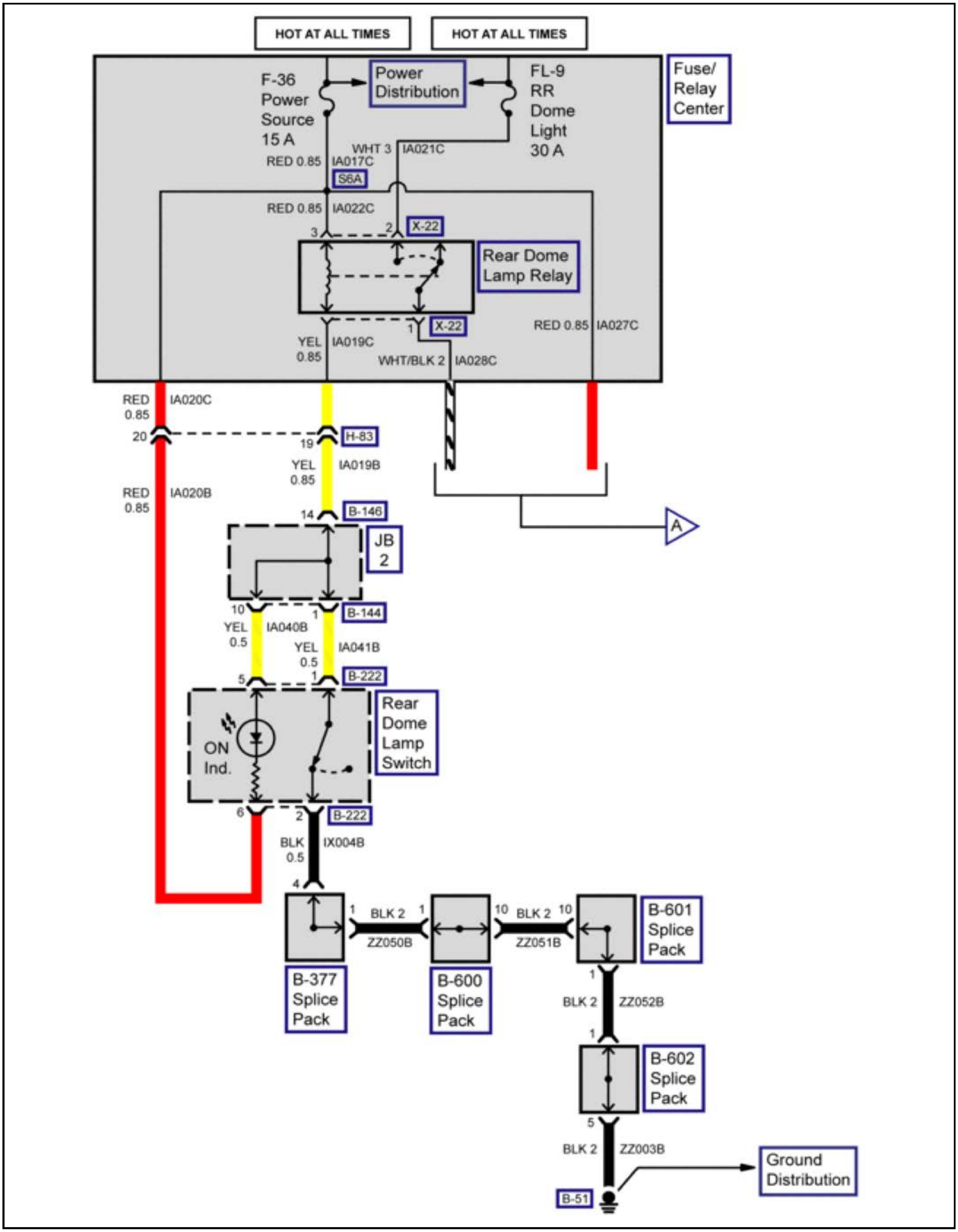
4891777

Body Builder Connector Schematics (Power Source Connector)


HOT IN ACC OR ON
F-24
ACC
15 A
Power Distribution
Fuse/ Relay Center (Cab)
HOT AT ALL TIMES
Power Distribution
FL-3
Power
ACC
50A
Fuse/ Relay Center
2
B-22
RED/YEL
0.5
SA103B
4
B-146
J/B 2
5
B-146
RED/YEL
0.5
SA103B
RED/YEL
0.5
SA041B
6
B-136
J/B 1
6
B-135
RED/BLK
5
PA010C
1
H-82
RED/BLK
5
PA010B
2
1
B-212
Power ACC Relay
3
4
B-212
BLK/RED
3
SA011B
3
B-250
BLK
0.5
2
SX011B
B-377 Splice Pack
1
BLK
2
1
ZZ050B
B-600 Splice Pack
10
BLK
2
10
ZZ051B
B-601 Splice Pack
1
BLK
2
1
ZZ052B
B-602 Splice Pack
5
BLK
2
ZZ003B
B-51
A-2
Accessories
Socket
15A
A-3
Power
Source
20A
Fuse/ Relay Center (Cab)
4
GRN/ORN
0.85
SA005B
1
B-214
Power Outlet (Lower)
1
B-213
BLK
2
SX005B
9
B-379 Splice Pack
10
BLK
3
ZZ053B
5
BLK
3
ZZ040B
6
B-250
GRN/ORN
1.25
SA005B
1
B-220
Power Source Connector
Ground Distribution
B-60

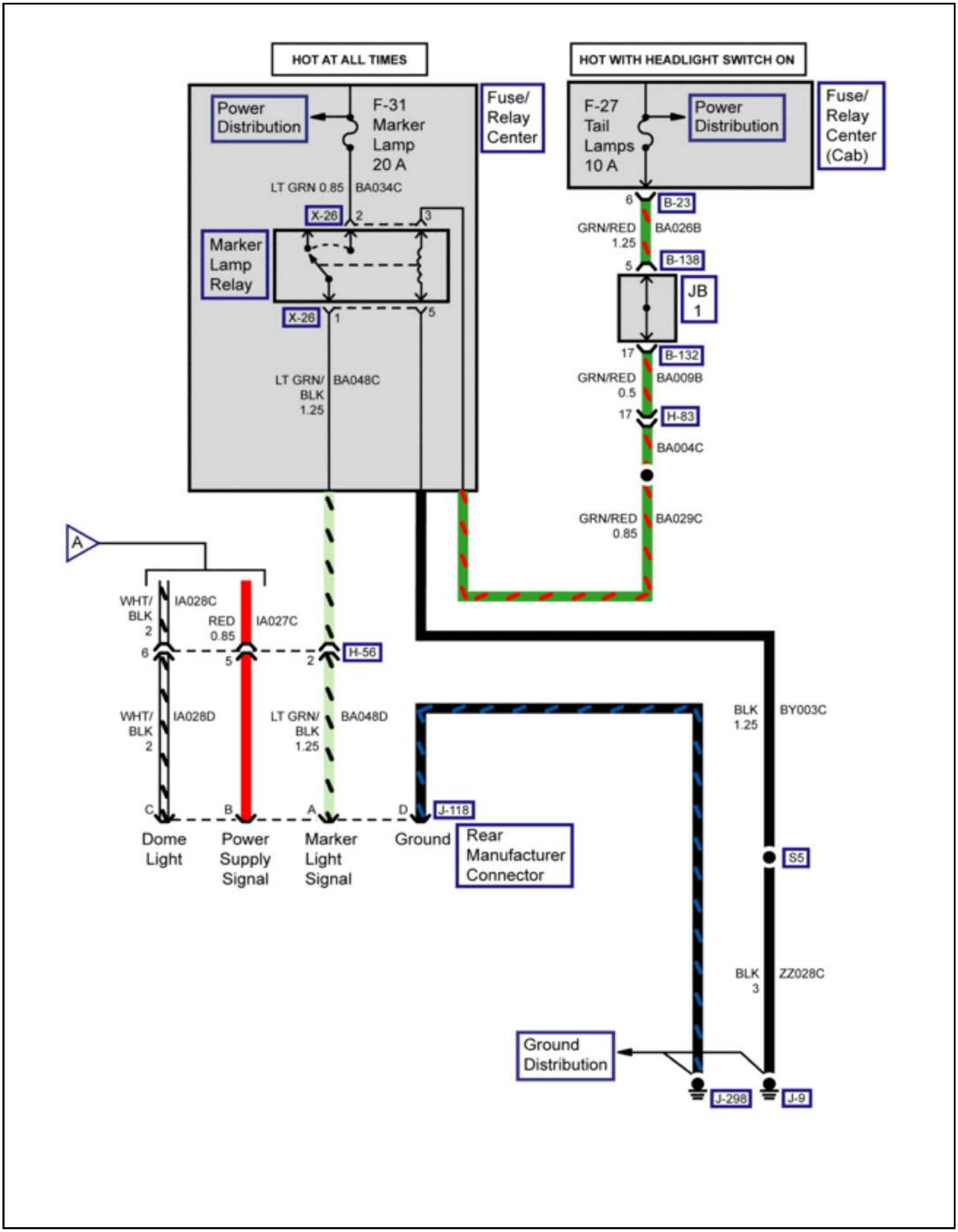
4891781

Rear Manufacture Connector Schematics (Switch Control)


HOT AT ALL TIMES
HOT AT ALL TIMES
F-36 Power Source 15 A
Power Distribution
FL-9 RR Dome Light 30 A
Fuse/ Relay Center
WHT 3
IA021C
RED 0.85
IA017C
S6A
RED 0.85
IA022C
3
2
X-22
Rear Dome Lamp Relay
1
X-22
RED 0.85
IA027C
YEL 0.85
IA019C
WHT/BLK 2
IA028C
RED 0.85
IA020C
20
19
H-83
YEL 0.85
IA019B
RED 0.85
IA020B
14
B-146
JB 2
A
10
1
B-144
YEL 0.5
IA040B
YEL 0.5
IA041B
5
1
B-222
ON Ind.
Rear Dome Lamp Switch
6
2
B-222
BLK 0.5
IX004B
4
1
BLK 2
1
ZZ050B
10
BLK 2
10
ZZ051B
B-601 Splice Pack
B-377 Splice Pack
B-600 Splice Pack
1
BLK 2
ZZ052B
1
B-602 Splice Pack
5
BLK 2
ZZ003B
Ground Distribution
B-51

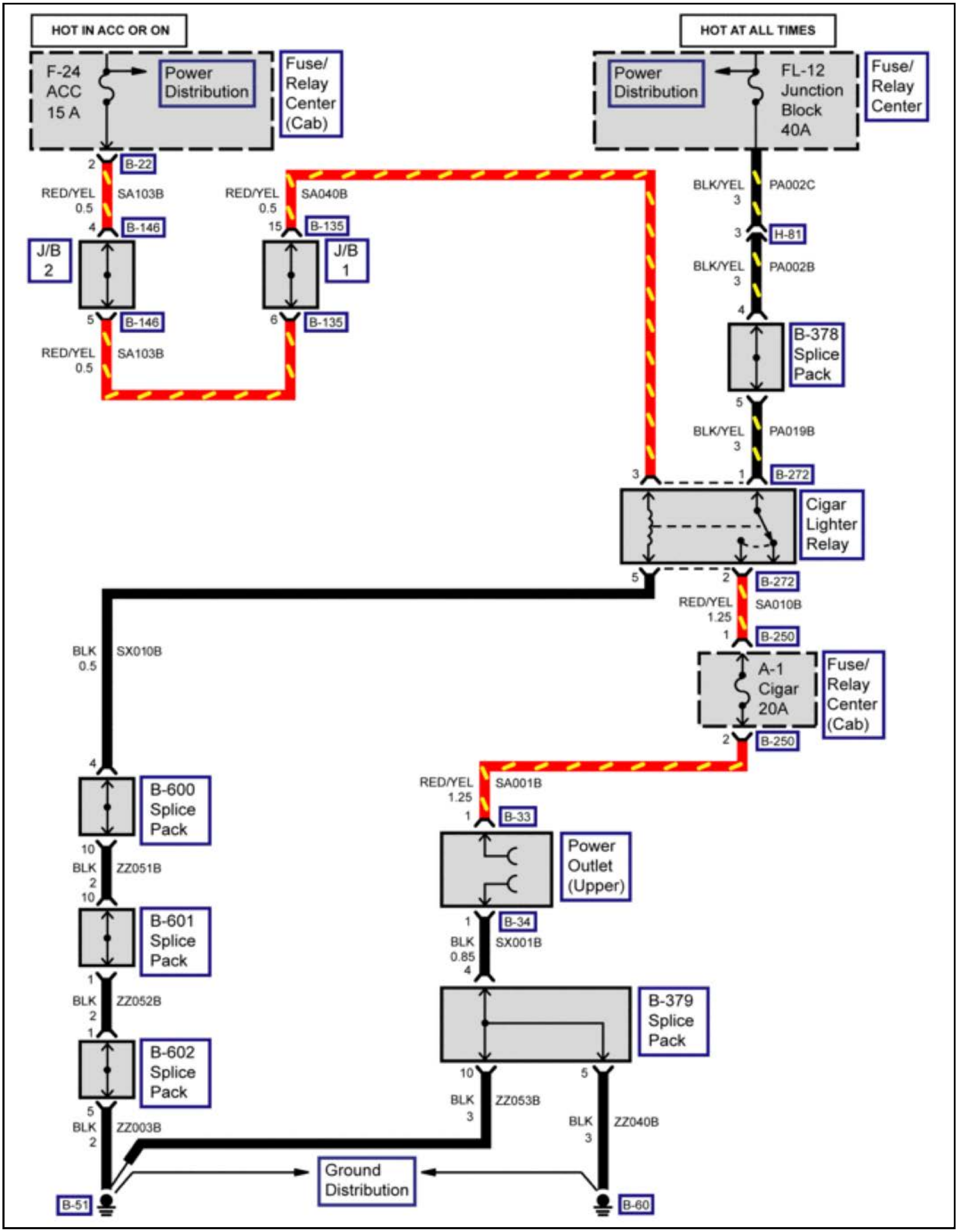
4891798

Rear Manufacture Connector Schematics (Connector)


HOT AT ALL TIMES
HOT WITH HEADLIGHT SWITCH ON
Power Distribution
F-31 Marker Lamp 20 A
Fuse/ Relay Center
F-27 Tail Lamps 10 A
Power Distribution
Fuse/ Relay Center (Cab)
LT GRN 0.85
BA034C
X-26
2
3
Marker Lamp Relay
X-26
1
5
6
B-23
GRN/RED 1.25
BA026B
5
B-138
JB 1
17
B-132
GRN/RED 0.5
BA009B
17
H-83
BA004C
LT GRN/ BLK 1.25
BA048C
GRN/RED 0.85
BA029C
A
WHT/ BLK 2
IA028C
RED 0.85
IA027C
6
5
2
H-56
WHT/ BLK 2
IA028D
LT GRN/ BLK 1.25
BA048D
BLK 1.25
BY003C
C
B
A
D
J-118
Dome Light
Power Supply Signal
Marker Light Signal
Ground
Rear Manufacturer Connector
S5
BLK 3
ZZ028C
Ground Distribution
J-298
J-9

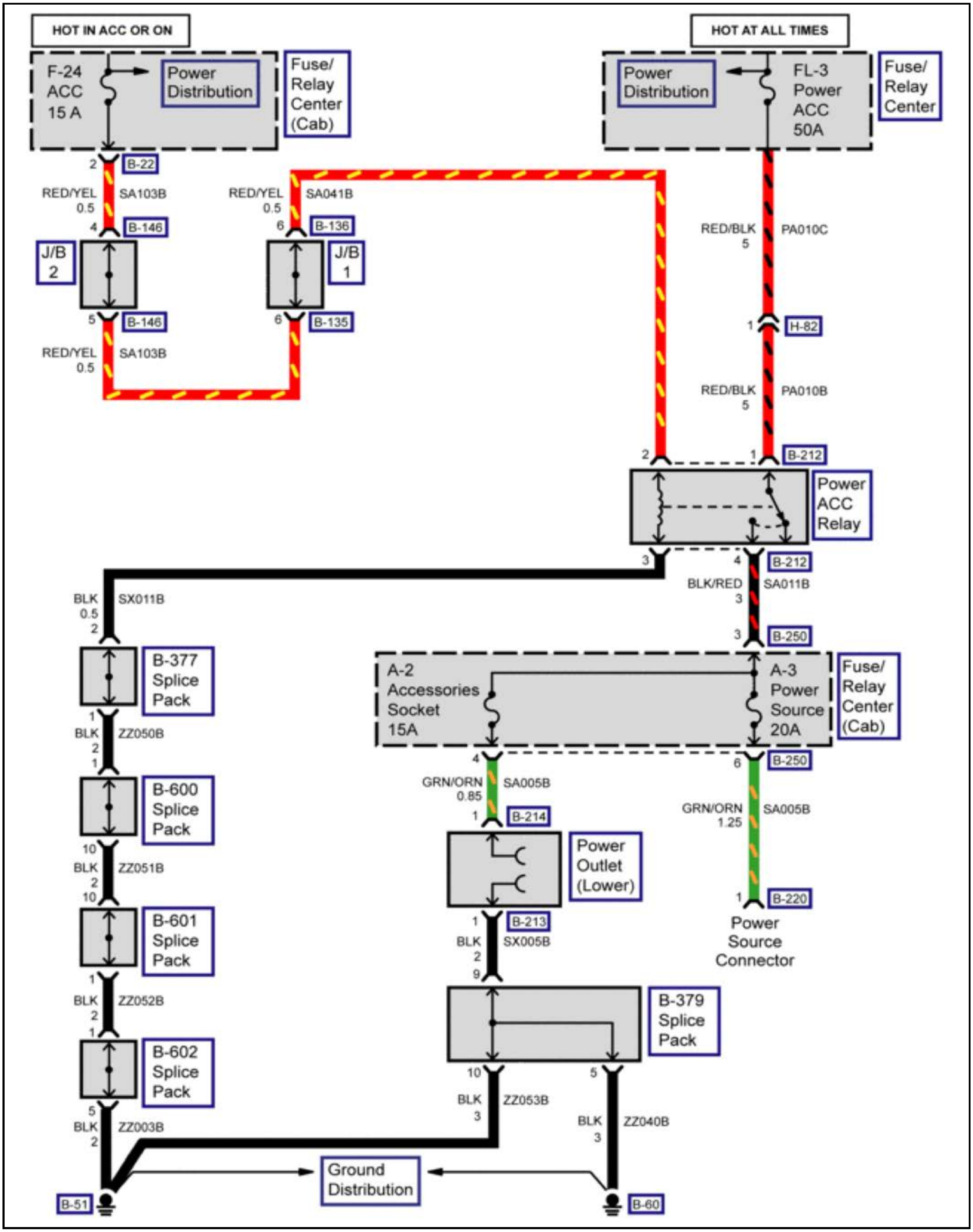
4891804

Power Outlet/Power Source Schematics (Power Outlet Upper)


HOT IN ACC OR ON
F-24
ACC
15 A
Power Distribution
Fuse/ Relay Center (Cab)
HOT AT ALL TIMES
Power Distribution
FL-12
Junction Block
40A
Fuse/ Relay Center
2
B-22
RED/YEL
0.5
SA103B
4
B-146
J/B
2
5
B-146
RED/YEL
0.5
SA103B
RED/YEL
0.5
SA040B
15
B-135
J/B
1
6
B-135
BLK/YEL
3
PA002C
3
H-81
BLK/YEL
3
PA002B
4
B-378 Splice Pack
5
BLK/YEL
3
PA019B
3
1
B-272
Cigar Lighter Relay
5
2
B-272
RED/YEL
1.25
SA010B
1
B-250
A-1
Cigar
20A
Fuse/ Relay Center (Cab)
2
B-250
BLK
0.5
SX010B
4
B-600 Splice Pack
10
BLK
2
ZZ051B
10
B-601 Splice Pack
1
BLK
2
ZZ052B
1
B-602 Splice Pack
5
BLK
2
ZZ003B
RED/YEL
1.25
SA001B
1
B-33
Power Outlet (Upper)
1
B-34
BLK
0.85
SX001B
4
B-379 Splice Pack
10
5
BLK
3
ZZ053B
BLK
3
ZZ040B
Ground Distribution
B-51
B-60

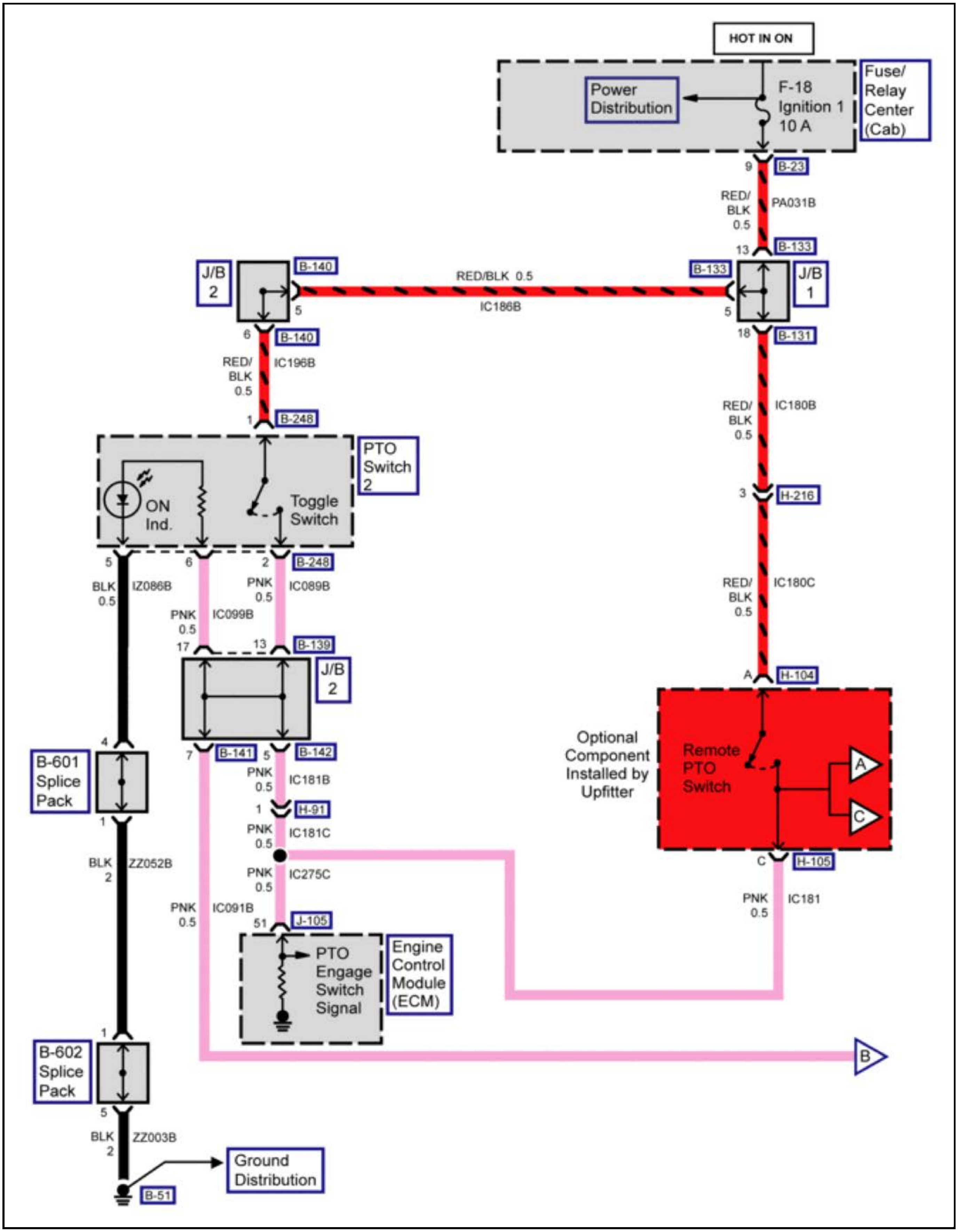
4892308

Power Outlet/Power Source Schematics (Power Outlet Lower, Power Source Connector)


HOT IN ACC OR ON
F-24
ACC
15 A
Power Distribution
Fuse/ Relay Center (Cab)
HOT AT ALL TIMES
Power Distribution
FL-3
Power
ACC
50A
Fuse/ Relay Center
2
B-22
RED/YEL
0.5
SA103B
4
B-146
J/B
2
5
B-146
RED/YEL
0.5
SA103B
RED/YEL
0.5
SA041B
6
B-136
J/B
1
6
B-135
RED/BLK
5
PA010C
1
H-82
RED/BLK
5
PA010B
2
1
B-212
Power ACC Relay
3
4
B-212
BLK/RED
3
SA011B
3
B-250
BLK
0.5
2
SX011B
B-377 Splice Pack
1
BLK
2
1
ZZ050B
B-600 Splice Pack
10
BLK
2
10
ZZ051B
B-601 Splice Pack
1
BLK
2
1
ZZ052B
B-602 Splice Pack
5
BLK
2
ZZ003B
B-51
A-2
Accessories
Socket
15A
A-3
Power
Source
20A
Fuse/ Relay Center (Cab)
4
GRN/ORN
0.85
SA005B
1
B-214
Power Outlet (Lower)
1
B-213
BLK
2
9
SX005B
6
B-250
GRN/ORN
1.25
SA005B
1
B-220
Power Source Connector
B-379 Splice Pack
10
BLK
3
ZZ053B
5
BLK
3
ZZ040B
Ground Distribution
B-60

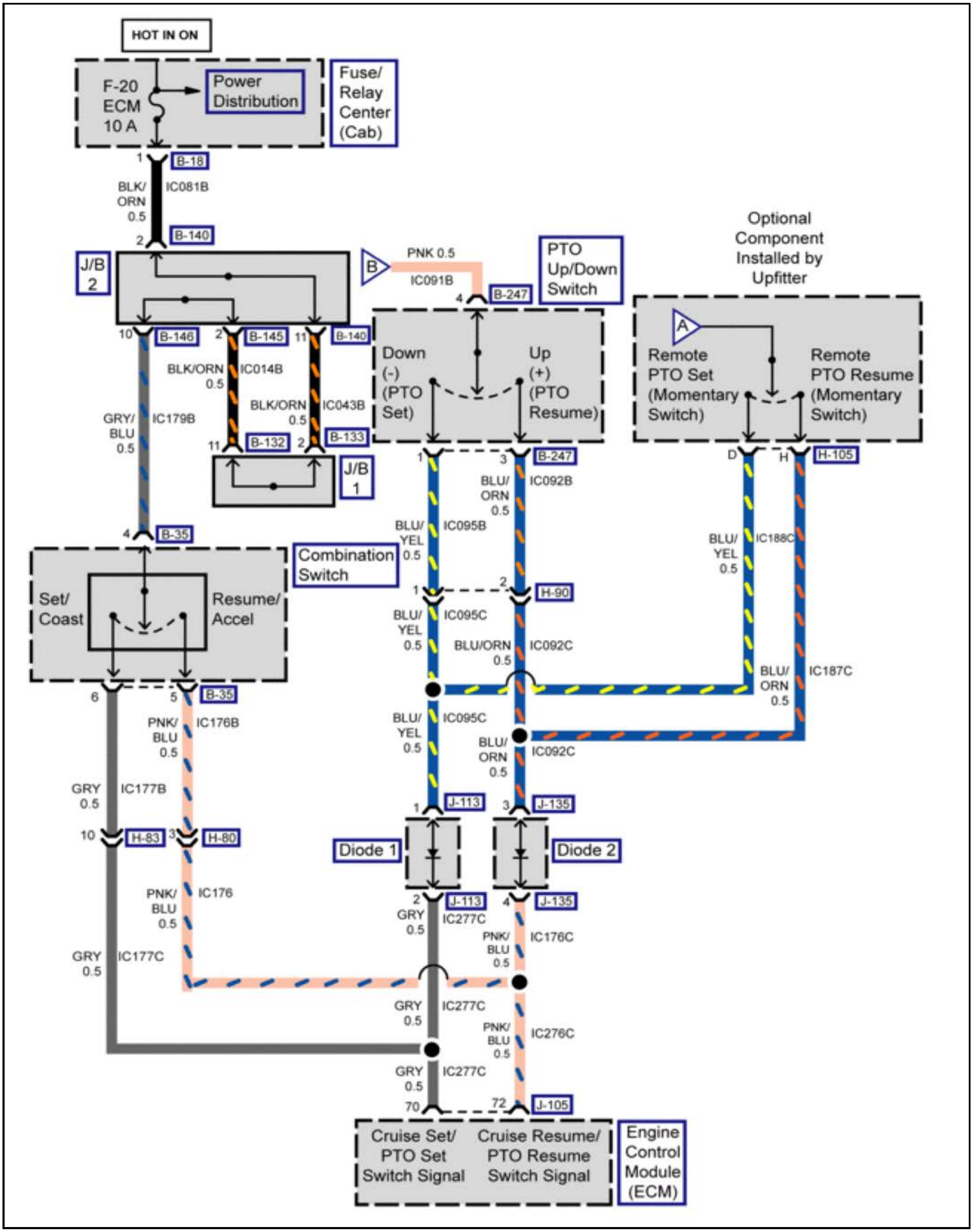
4892317

Power Take-Off System Schematics (Power Take-Off Switch)


HOT IN ON
Power Distribution
F-18 Ignition 1 10 A
Fuse/ Relay Center (Cab)
9 B-23
RED/ BLK 0.5
PA031B
13 B-133
J/B 2
B-140
RED/BLK 0.5
B-133
J/B 1
5
IC186B
5
6 B-140
18 B-131
RED/ BLK 0.5
IC196B
1 B-248
RED/ BLK 0.5
IC180B
PTO Switch 2
ON Ind.
Toggle Switch
3 H-216
5
6
2 B-248
BLK 0.5
IZ086B
PNK 0.5
IC089B
PNK 0.5
IC099B
RED/ BLK 0.5
IC180C
17
13 B-139
J/B 2
A H-104
Optional Component Installed by Upfitter
Remote PTO Switch
A
C
4
B-601 Splice Pack
1
7 B-141
5 B-142
PNK 0.5
IC181B
1 H-91
PNK 0.5
IC181C
BLK 2
ZZ052B
PNK 0.5
IC275C
C H-105
PNK 0.5
IC181
PNK 0.5
IC091B
51 J-105
PTO Engage Switch Signal
Engine Control Module (ECM)
1
B-602 Splice Pack
B
5
BLK 2
ZZ003B
Ground Distribution
B-51

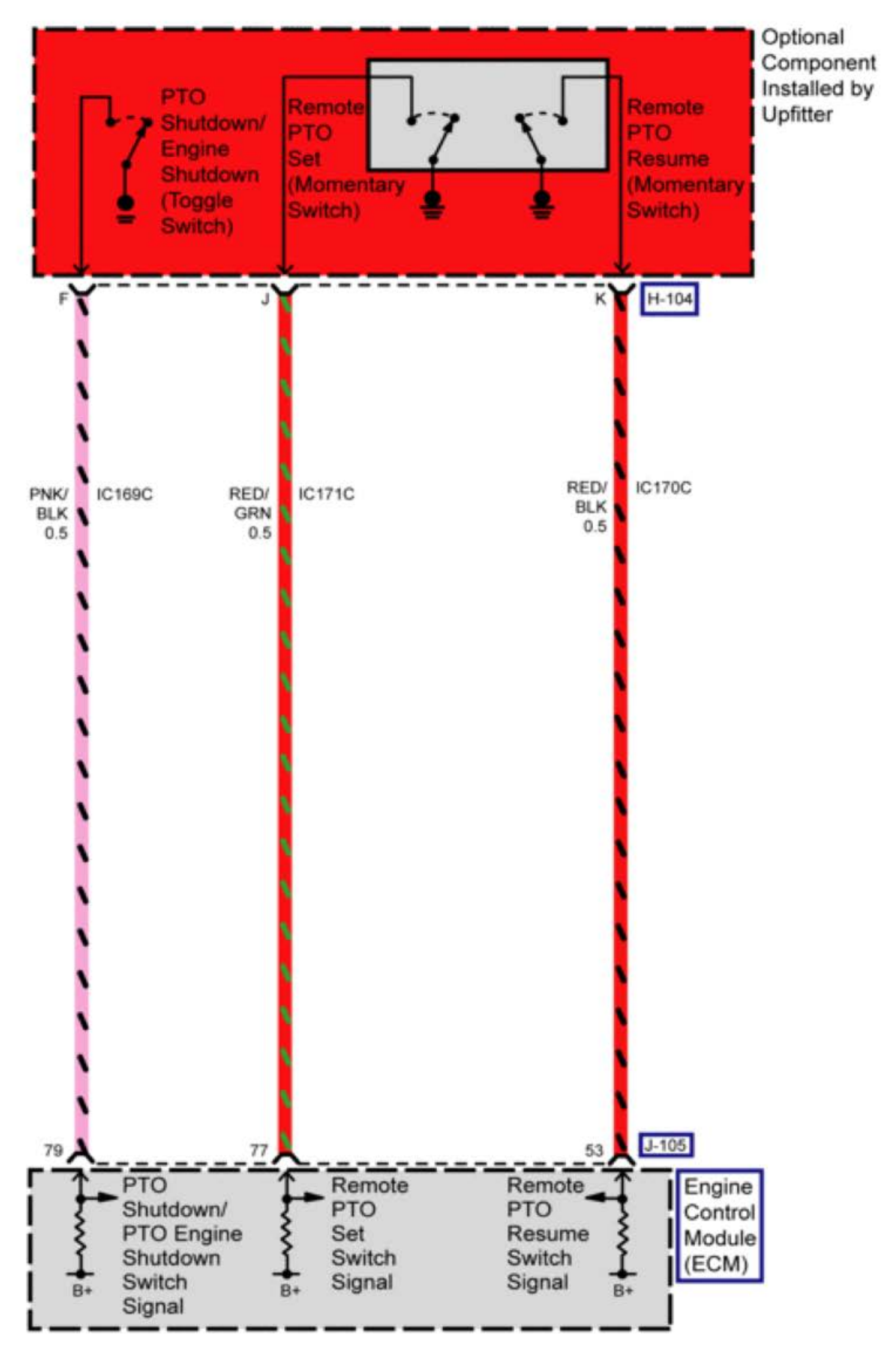
4892341

Power Take-Off System Schematics (PTO Set/Resumes Switches (Up/Down))


HOT IN ON
F-20
ECM
10 A
Power Distribution
Fuse/ Relay Center (Cab)
1
B-18
BLK/ ORN 0.5
IC081B
2
B-140
J/B 2
B
PNK 0.5
IC091B
4
B-247
PTO Up/Down Switch
Optional Component Installed by Upfitter
A
10
B-146
2
B-145
11
B-140
BLK/ORN 0.5
IC014B
BLK/ORN 0.5
IC043B
GRY/ BLU 0.5
IC179B
11
B-132
2
B-133
J/B 1
Down (-) (PTO Set)
Up (+) (PTO Resume)
Remote PTO Set (Momentary Switch)
Remote PTO Resume (Momentary Switch)
1
3
B-247
D
H
H-105
BLU/ ORN 0.5
IC092B
BLU/ YEL 0.5
IC095B
BLU/ YEL 0.5
IC188C
4
B-35
Combination Switch
1
2
H-90
Set/ Coast
Resume/ Accel
BLU/ YEL 0.5
IC095C
BLU/ORN 0.5
IC092C
BLU/ ORN 0.5
IC187C
6
5
B-35
PNK/ BLU 0.5
IC176B
BLU/ YEL 0.5
IC095C
BLU/ ORN 0.5
IC092C
GRY 0.5
IC177B
1
J-113
3
J-135
10
H-83
3
H-80
Diode 1
Diode 2
PNK/ BLU 0.5
IC176
2
J-113
GRY 0.5
IC277C
4
J-135
PNK/ BLU 0.5
IC176C
GRY 0.5
IC177C
GRY 0.5
IC277C
PNK/ BLU 0.5
IC276C
GRY 0.5
IC277C
70
72
J-105
Cruise Set/ PTO Set Switch Signal
Cruise Resume/ PTO Resume Switch Signal
Engine Control Module (ECM)

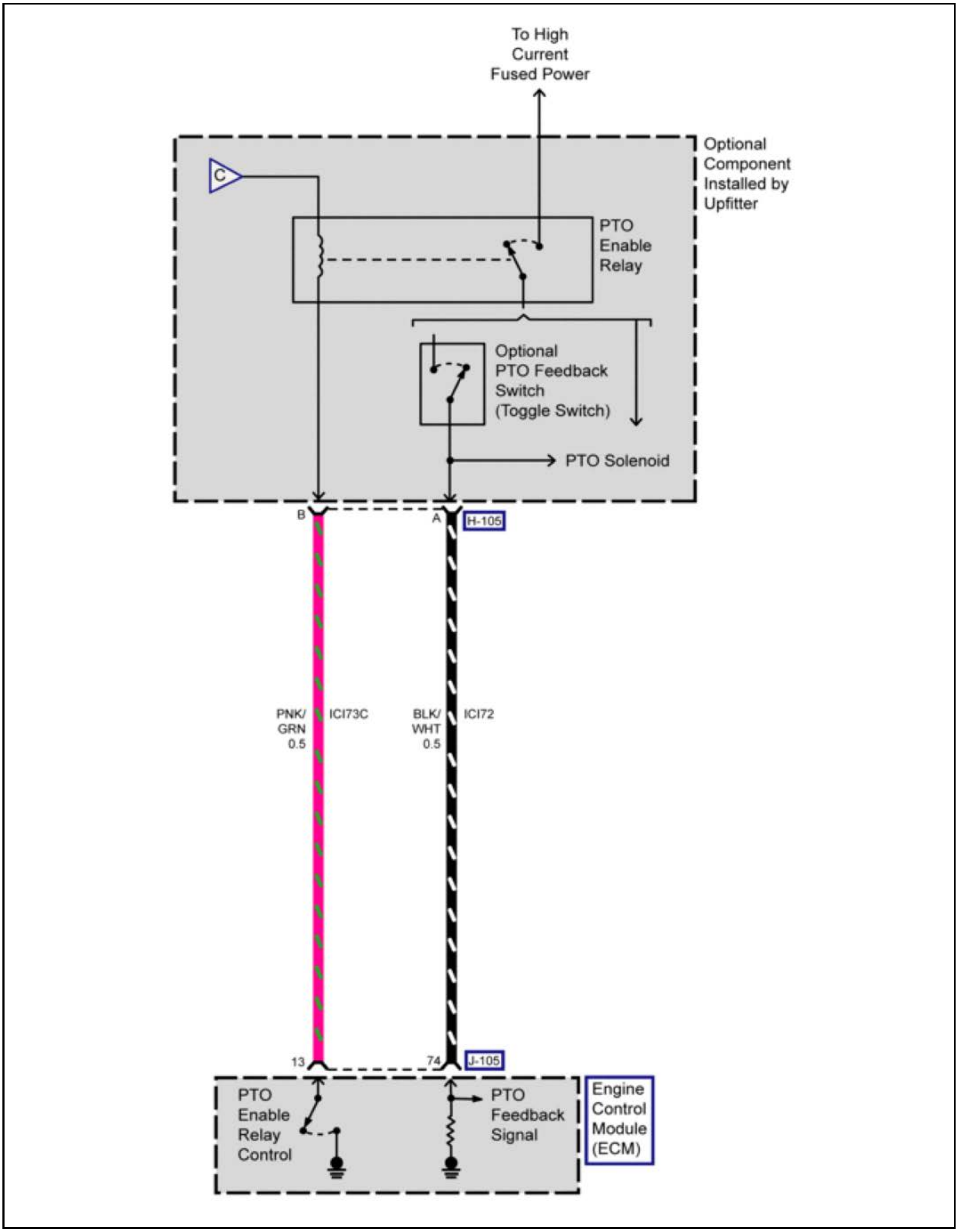
4892347

Power Take-Off System Schematics (Resume, PTO Disable and Set Switch)


Optional Component Installed by Upfitter
PTO Shutdown/ Engine Shutdown (Toggle Switch)
Remote PTO Set (Momentary Switch)
Remote PTO Resume (Momentary Switch)
F
J
K
H-104
PNK/ BLK 0.5
IC169C
RED/ GRN 0.5
IC171C
RED/ BLK 0.5
IC170C
79
77
53
J-105
PTO Shutdown/ PTO Engine Shutdown Switch Signal
Remote PTO Set Switch Signal
Remote PTO Resume Switch Signal
B+
B+
B+
Engine Control Module (ECM)

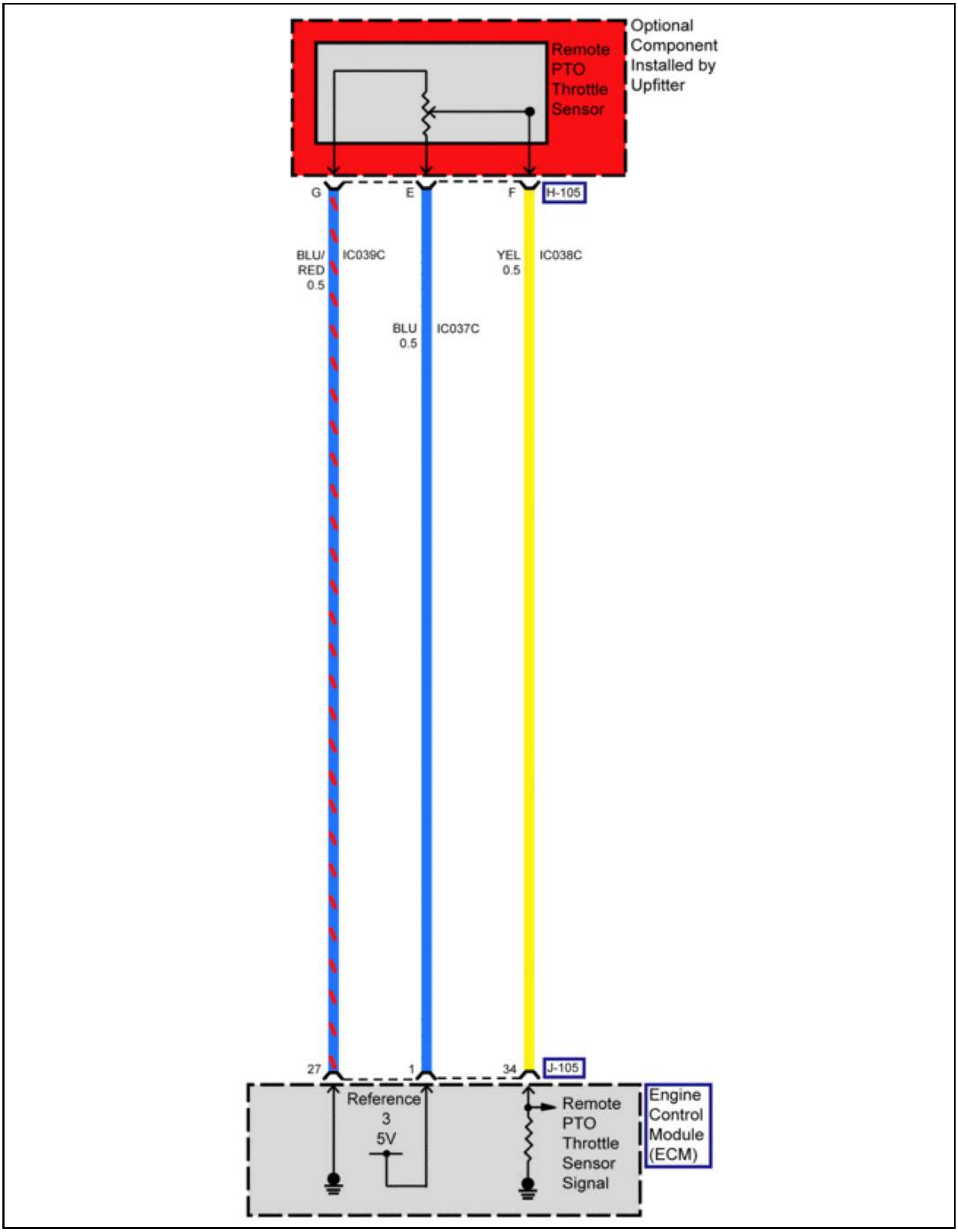
4892360

Power Take-Off System Schematics (Power Take-Off Enable Relay)


To High Current Fused Power
Optional Component Installed by Upfitter
C
PTO Enable Relay
Optional PTO Feedback Switch (Toggle Switch)
PTO Solenoid
B
A
H-105
PNK/ GRN 0.5
ICI73C
BLK/ WHT 0.5
ICI72
13
74
J-105
PTO Enable Relay Control
PTO Feedback Signal
Engine Control Module (ECM)

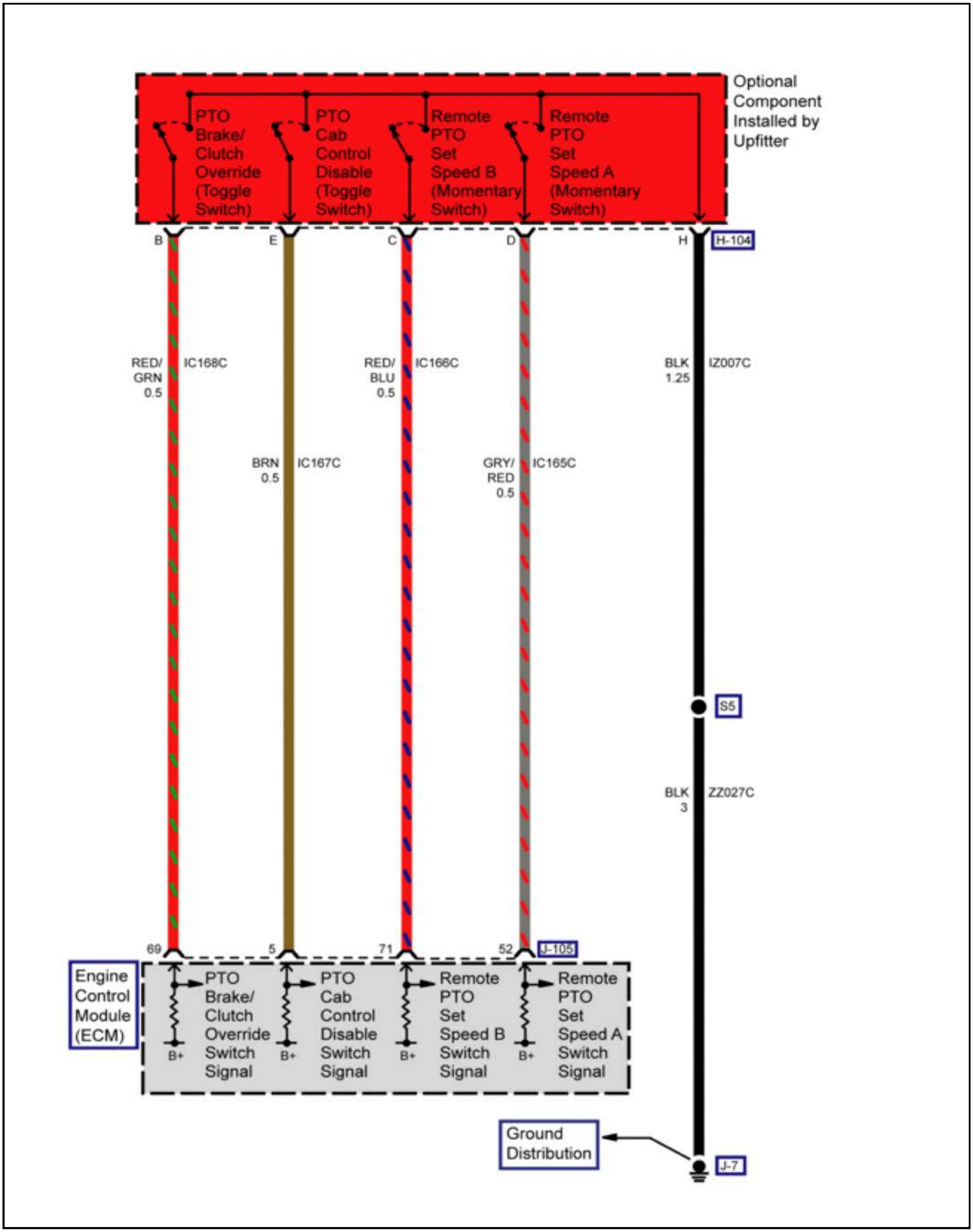
4892369

Power Take-Off System Schematics (Power Take-Off Throttle Sensor)


Optional Component Installed by Upfitter
Remote PTO Throttle Sensor
G
E
F
H-105
BLU/ RED 0.5
IC039C
BLU 0.5
IC037C
YEL 0.5
IC038C
27
1
34
J-105
Reference 3 5V
Remote PTO Throttle Sensor Signal
Engine Control Module (ECM)

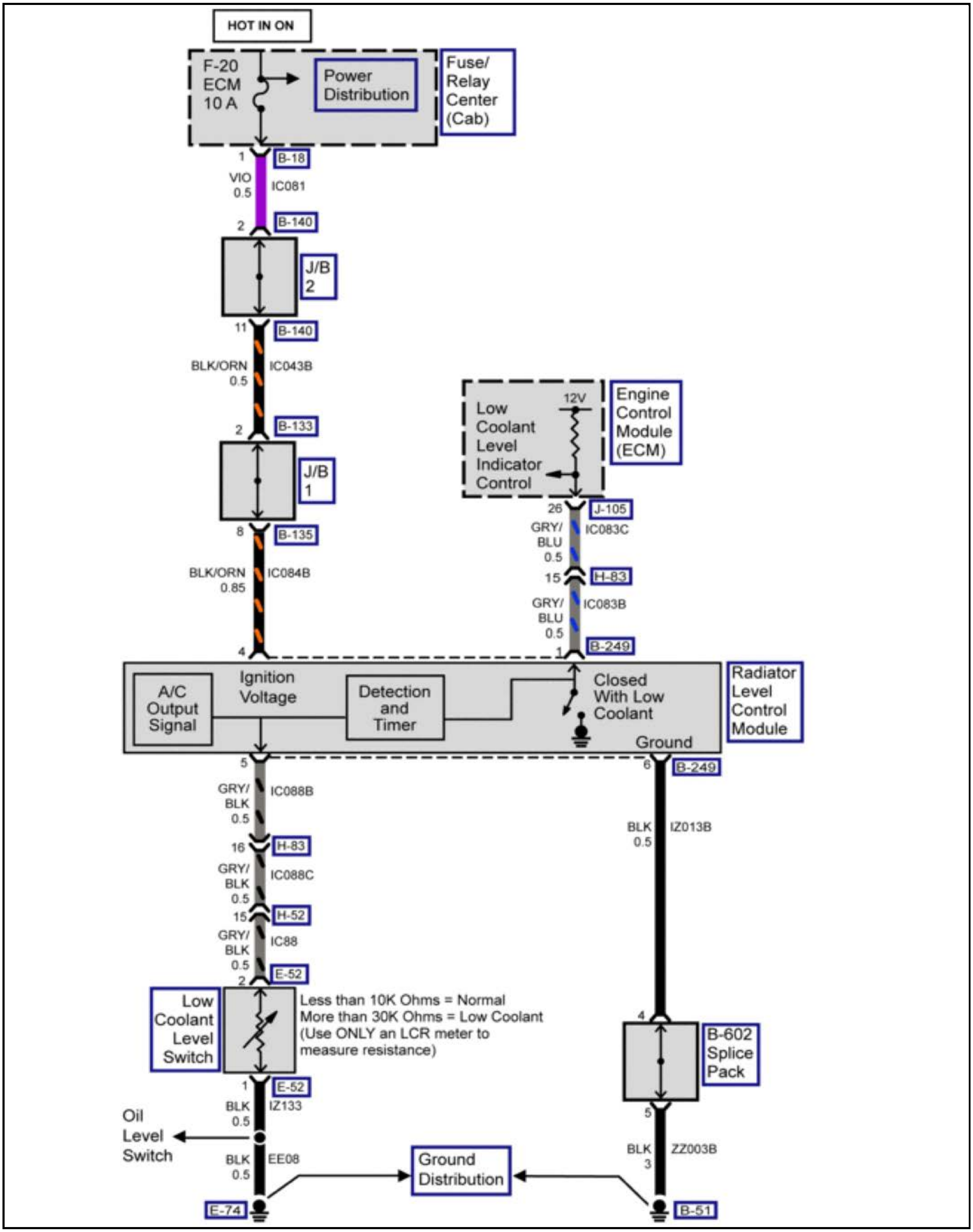
4892376

Power Take-Off System Schematics (Brake/Clutch Override, Cab Control Disable, Set Speed A and B Switches)


Optional Component Installed by Upfitter
PTO Brake/ Clutch Override (Toggle Switch)
PTO Cab Control Disable (Toggle Switch)
Remote PTO Set Speed B (Momentary Switch)
Remote PTO Set Speed A (Momentary Switch)
B
E
C
D
H
H-104
RED/ GRN 0.5
IC168C
BRN 0.5
IC167C
RED/ BLU 0.5
IC166C
GRY/ RED 0.5
IC165C
BLK 1.25
IZ007C
S5
BLK 3
ZZ027C
69
5
71
52
J-105
Engine Control Module (ECM)
PTO Brake/ Clutch Override Switch Signal
PTO Cab Control Disable Switch Signal
Remote PTO Set Speed B Switch Signal
Remote PTO Set Speed A Switch Signal
B+
B+
B+
B+
Ground Distribution
J-7

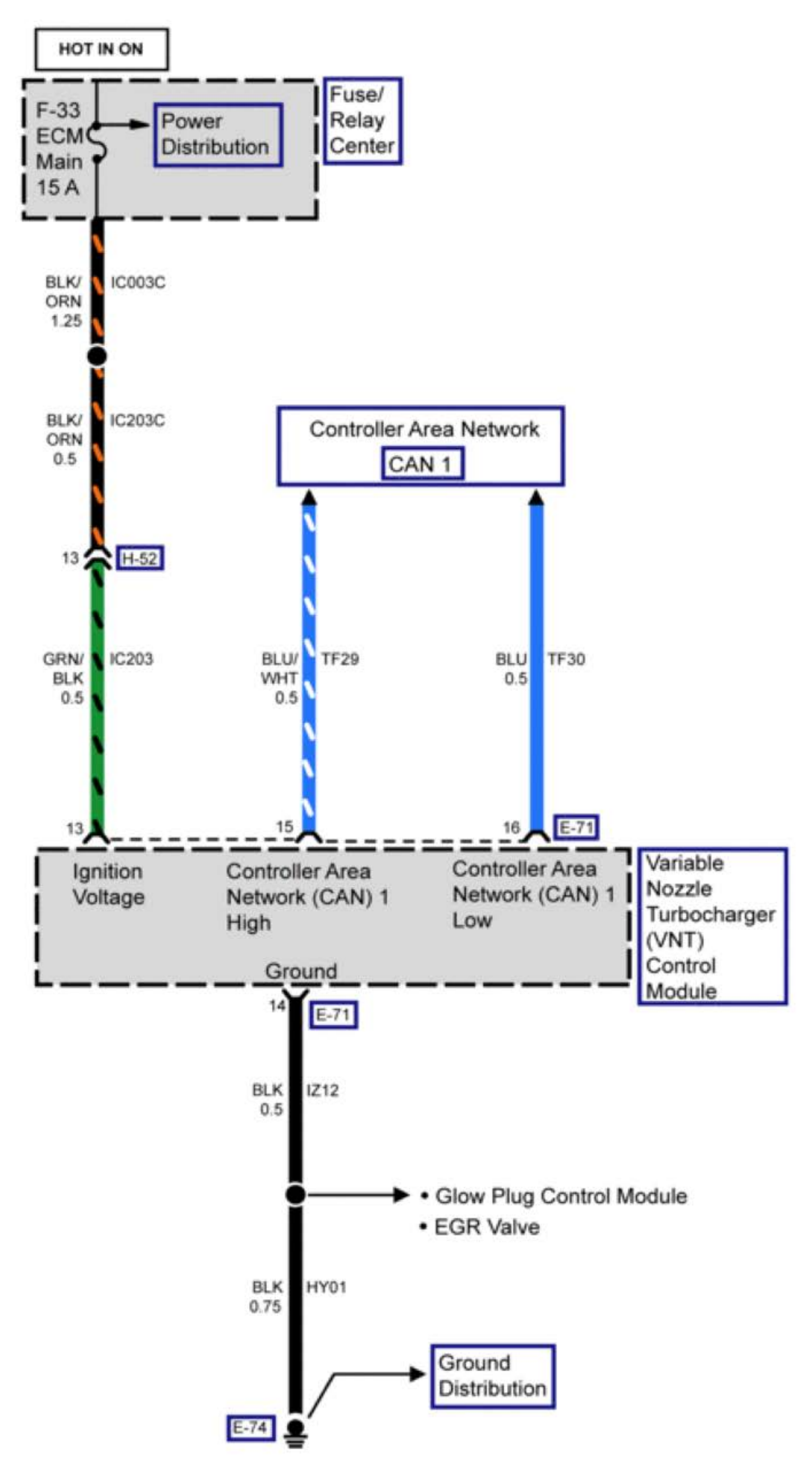
4892382

Engine Heating/Cooling Schematics (Engine Coolant Level Control Module)


HOT IN ON
F-20
ECM
10 A
Power Distribution
Fuse/ Relay Center (Cab)
1
B-18
VIO
0.5
IC081
2
B-140
J/B
2
11
B-140
BLK/ORN
0.5
IC043B
2
B-133
J/B
1
8
B-135
BLK/ORN
0.85
IC084B
4
Low Coolant Level Indicator Control
12V
Engine Control Module (ECM)
26
J-105
GRY/ BLU
0.5
IC083C
15
H-83
GRY/ BLU
0.5
IC083B
1
B-249
A/C Output Signal
Ignition Voltage
Detection and Timer
Closed With Low Coolant
Ground
Radiator Level Control Module
5
GRY/ BLK
0.5
IC088B
16
H-83
GRY/ BLK
0.5
IC088C
15
H-52
GRY/ BLK
0.5
IC88
2
E-52
6
B-249
BLK
0.5
IZ013B
Low Coolant Level Switch
Less than 10K Ohms = Normal
More than 30K Ohms = Low Coolant
(Use ONLY an LCR meter to measure resistance)
1
E-52
BLK
0.5
IZ133
Oil Level Switch
BLK
0.5
EE08
E-74
Ground Distribution
4
B-602 Splice Pack
5
BLK
3
ZZ003B
B-51

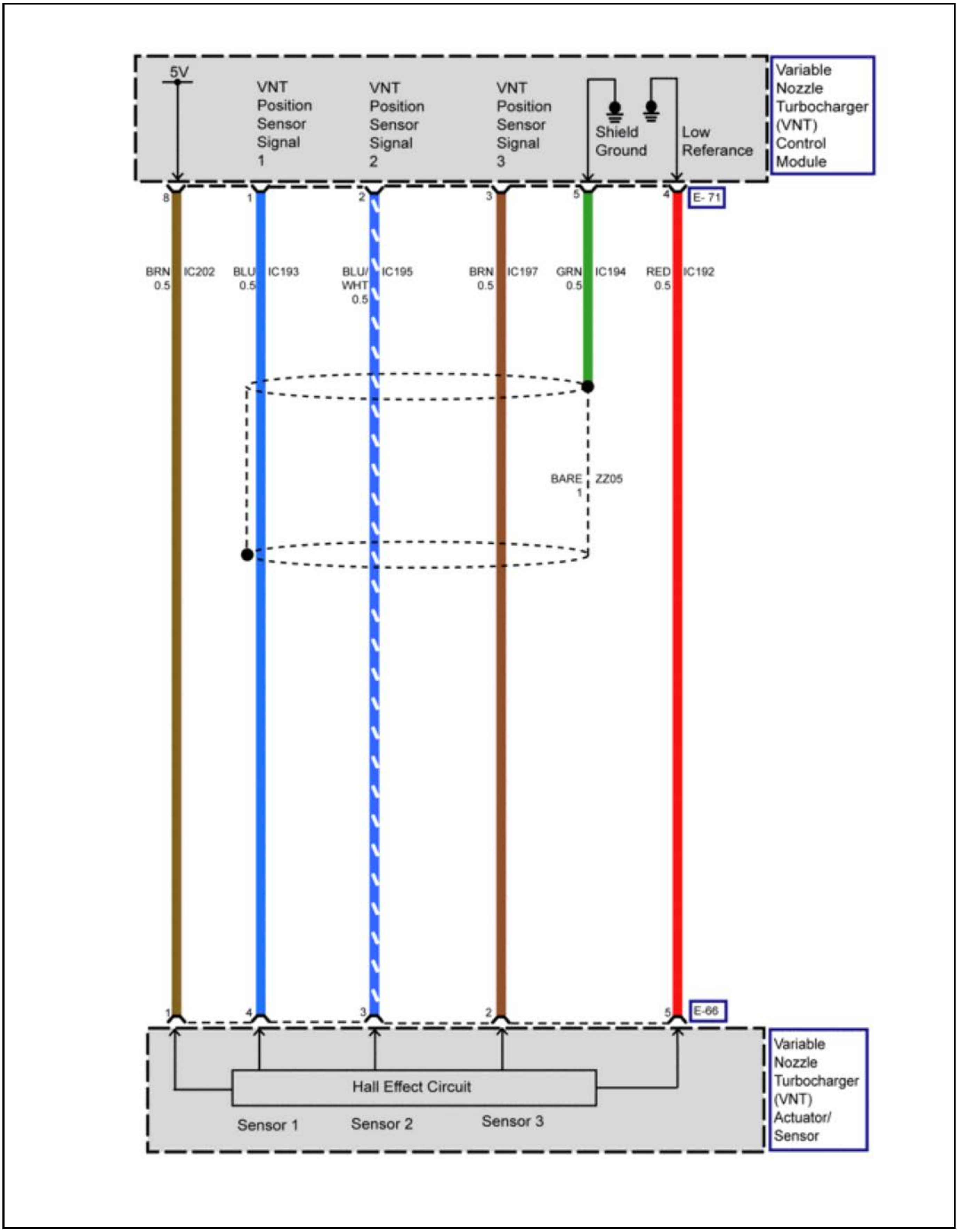
4892401

Exhaust System Schematics (Power, Ground, and Communication)


HOT IN ON
F-33
ECM
Main
15 A
Power
Distribution
Fuse/
Relay
Center
BLK/
ORN
1.25
IC003C
BLK/
ORN
0.5
IC203C
13
H-52
GRN/
BLK
0.5
IC203
Controller Area Network
CAN 1
BLU/
WHT
0.5
TF29
BLU
0.5
TF30
13
15
16
E-71
Ignition
Voltage
Controller Area
Network (CAN) 1
High
Controller Area
Network (CAN) 1
Low
Ground
Variable
Nozzle
Turbocharger
(VNT)
Control
Module
14
E-71
BLK
0.5
IZ12
• Glow Plug Control Module
• EGR Valve
BLK
0.75
HY01
Ground
Distribution
E-74

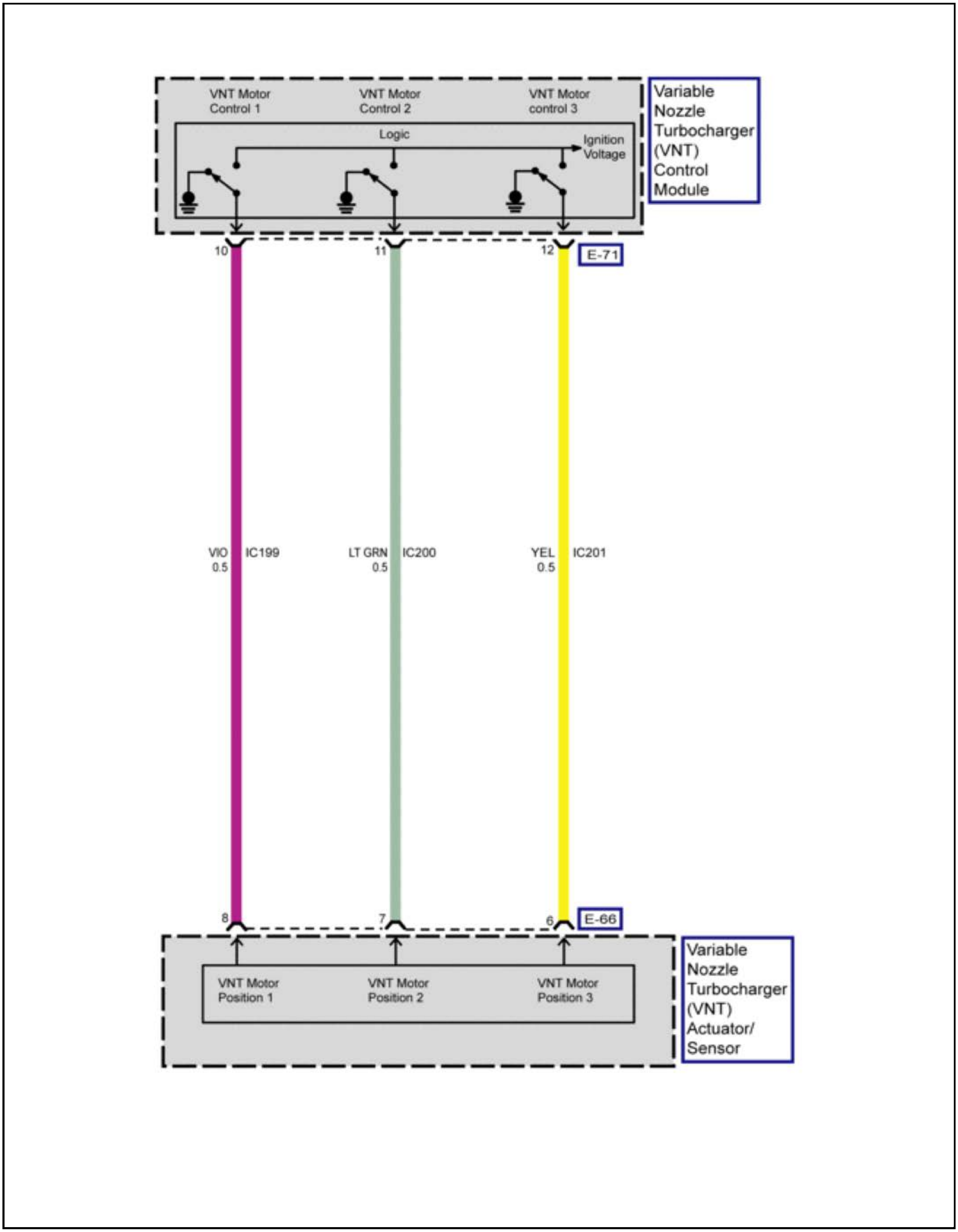
4892776

Exhaust System Schematics (Sensors)


5V
VNT Position Sensor Signal 1
VNT Position Sensor Signal 2
VNT Position Sensor Signal 3
Shield Ground
Low Referance
Variable Nozzle Turbocharger (VNT) Control Module
8
1
2
3
5
4
E- 71
BRN 0.5
IC202
BLU 0.5
IC193
BLU/ WHT 0.5
IC195
BRN 0.5
IC197
GRN 0.5
IC194
RED 0.5
IC192
BARE 1
ZZ05
1
4
3
2
5
E-66
Hall Effect Circuit
Sensor 1
Sensor 2
Sensor 3
Variable Nozzle Turbocharger (VNT) Actuator/ Sensor

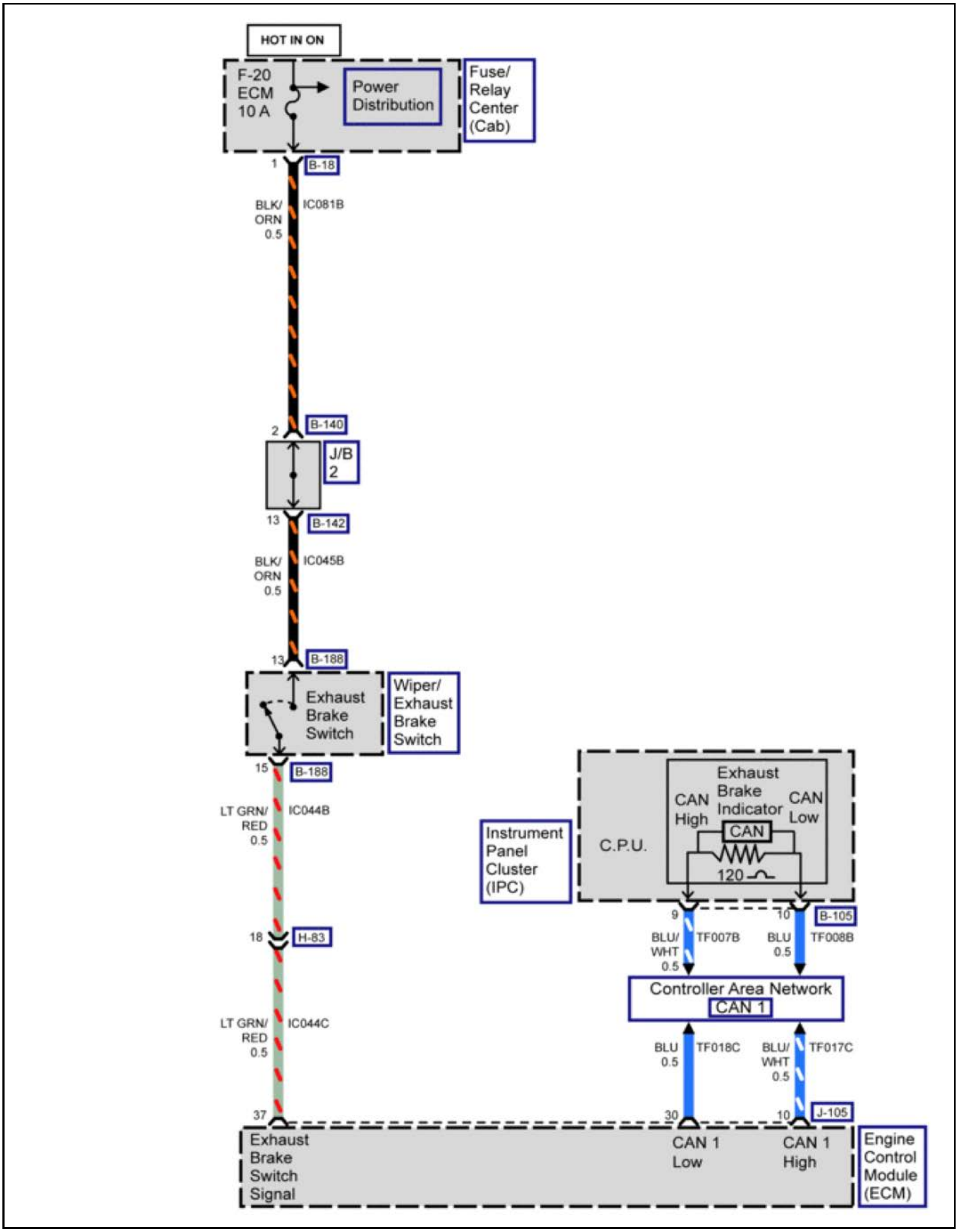
4892781

Exhaust System Schematics (VNT Motor)


VNT Motor Control 1
VNT Motor Control 2
VNT Motor control 3
Logic
Ignition Voltage
Variable Nozzle Turbocharger (VNT) Control Module
10
11
12
E-71
VIO 0.5
IC199
LT GRN 0.5
IC200
YEL 0.5
IC201
8
7
6
E-66
VNT Motor Position 1
VNT Motor Position 2
VNT Motor Position 3
Variable Nozzle Turbocharger (VNT) Actuator/ Sensor

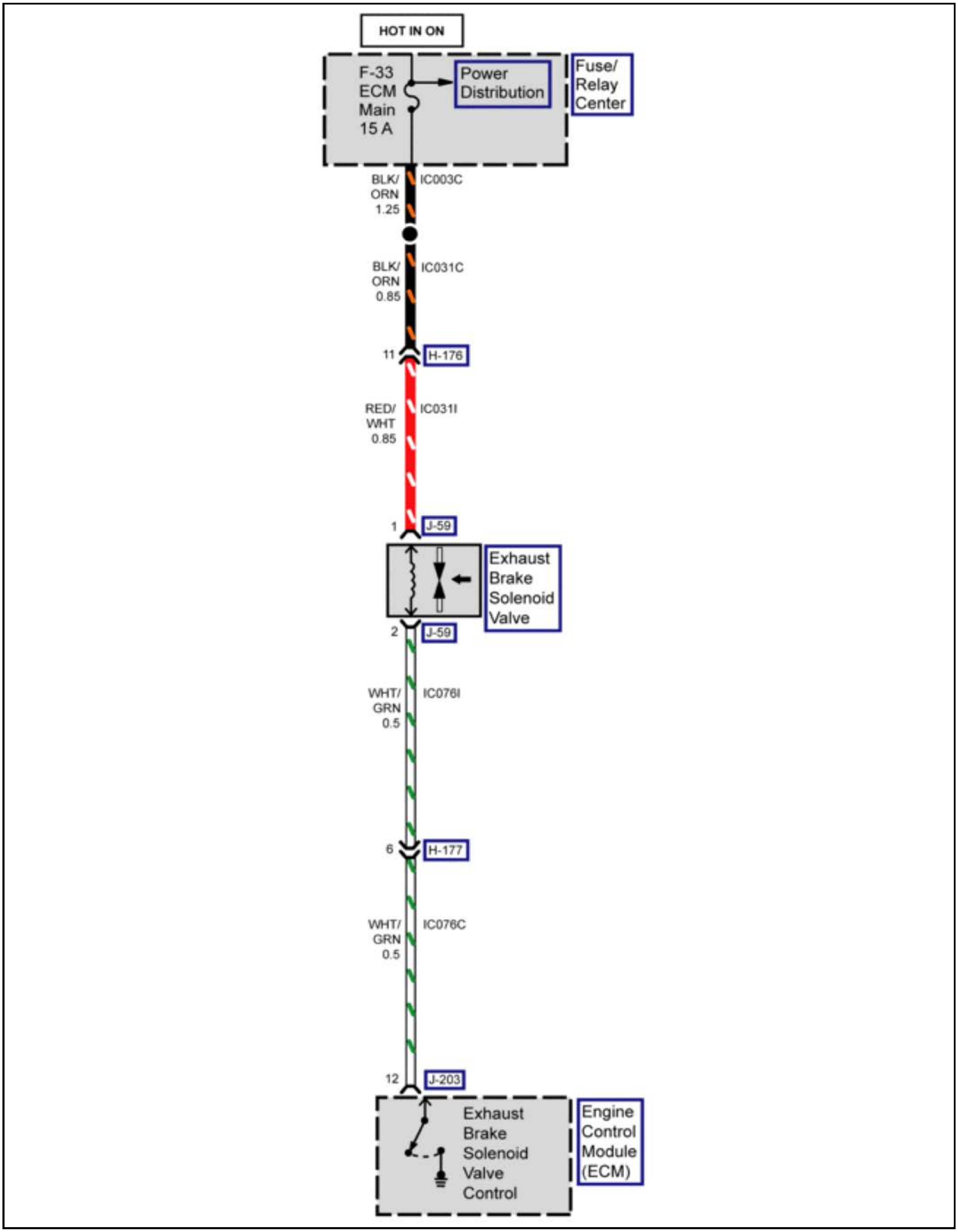
4892802

Exhaust System Schematics (Exhaust Brake Switch)


HOT IN ON
F-20
ECM
10 A
Power Distribution
Fuse/ Relay Center (Cab)
1
B-18
BLK/ ORN 0.5
IC081B
2
B-140
J/B 2
13
B-142
BLK/ ORN 0.5
IC045B
13
B-188
Exhaust Brake Switch
Wiper/ Exhaust Brake Switch
15
B-188
LT GRN/ RED 0.5
IC044B
18
H-83
LT GRN/ RED 0.5
IC044C
37
Instrument Panel Cluster (IPC)
C.P.U.
Exhaust Brake Indicator
CAN High
CAN Low
CAN
120
9
10
B-105
BLU/ WHT 0.5
TF007B
BLU 0.5
TF008B
Controller Area Network
CAN 1
BLU 0.5
TF018C
BLU/ WHT 0.5
TF017C
30
10
J-105
Exhaust Brake Switch Signal
CAN 1 Low
CAN 1 High
Engine Control Module (ECM)

4892854

Exhaust System Schematics (Exhaust Brake Control)

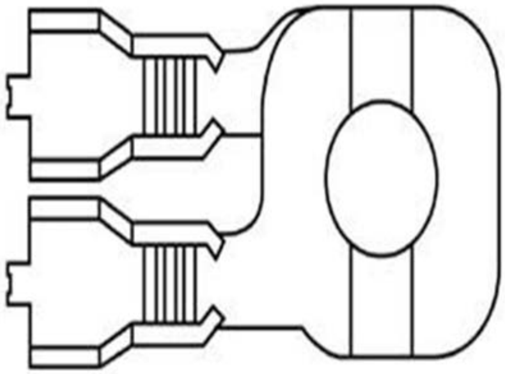

HOT IN ON
F-33
ECM
Main
15 A
Power Distribution
Fuse/ Relay Center
BLK/ ORN 1.25
IC003C
BLK/ ORN 0.85
IC031C
11
H-176
RED/ WHT 0.85
IC031I
1
J-59
Exhaust Brake Solenoid Valve
2
J-59
WHT/ GRN 0.5
IC076I
6
H-177
WHT/ GRN 0.5
IC076C
12
J-203
Exhaust Brake Solenoid Valve Control
Engine Control Module (ECM)

4892886

Component Locator

Ground Views

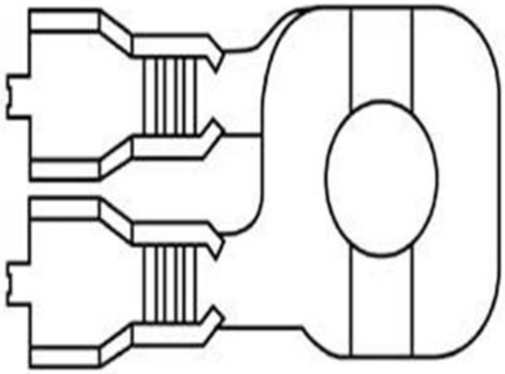
B-51 Ground Connector End View



4892337

Connector Part Information		- 7009-1864-02 - 2-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	ZZ003B	Ground for B-602 Splice Pack
1	BLK	ZZ053B	Ground for B-379 Splice Pack

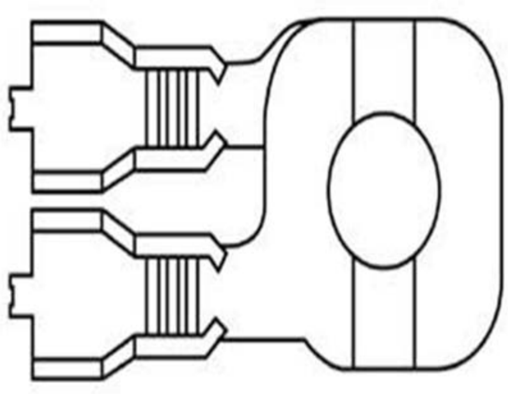
B-52 Ground Connector End View



4892337

Connector Part Information		• 7009-9229-02 • 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	ZZ021B	Ground for B-49 Junction Block

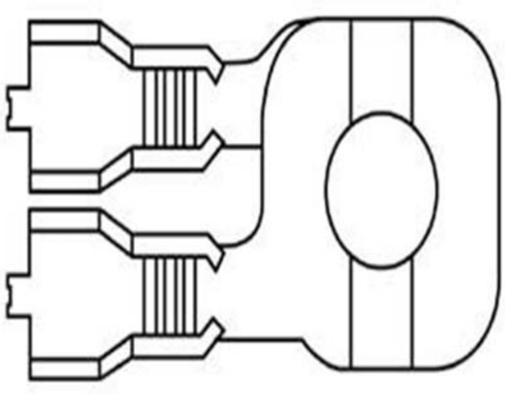
B-53 Ground Connector End View



4892337

Connector Part Information		• 7009-9229-02 • 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	ZZ020B	Ground to B-48 Junction Block
—	BLK	ZZ029B	J/B 2 (B-142 pin 16)

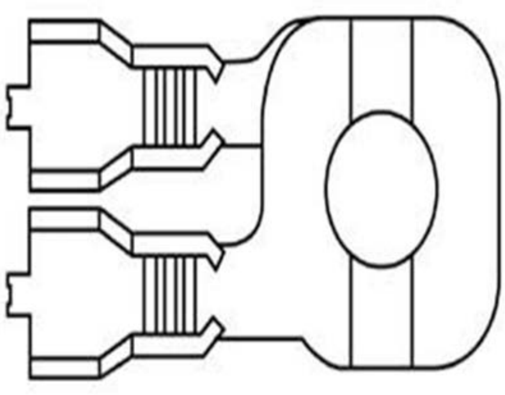
B-54 Ground Connector End View



4892337

Connector Part Information		- 7009-9229-02 - 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	ZZ008B	Ground to B-59

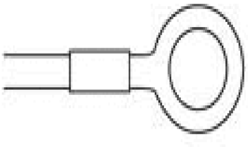
B-55 Ground Connector End View



4892337

Connector Part Information		- 7009-1333 - 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	ZZ043B	Ground to Splice 18

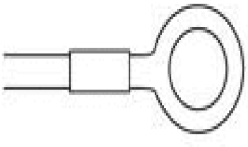
B-56 Ground Connector End View



4891426

Connector Part Information		• 7009-1865-02 • 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	ZZ012B	Ground to B-244

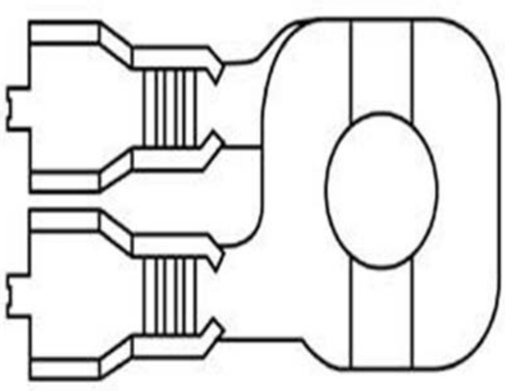
B-59 Ground Connector End View



4891426

Connector Part Information		- 7009-1864-02 - 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	ZZ008B	Ground to B-54

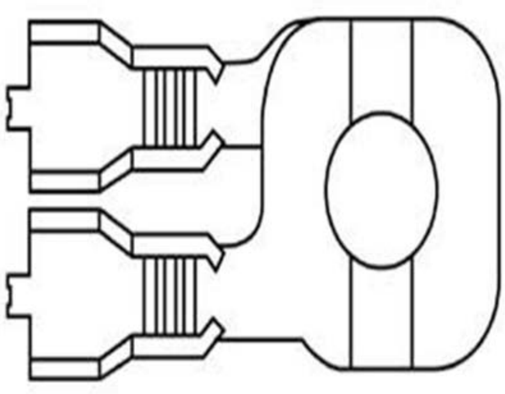
B-60 Ground Connector End View



4892337

Connector Part Information		- 7009-1864-02 - 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	ZZ040B	Ground for B-379 Splice PackGround for B-379 Splice Pack

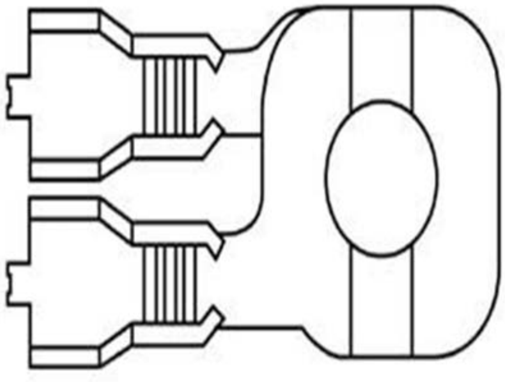
B-221 Ground Connector End View



4892337

Connector Part Information		• 7009-1333 • 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	ZZ042B	Ground to Splice 18

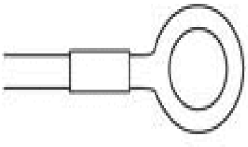
B-244 Ground Connector End View



4892337

Connector Part Information		• 7009-9228-02 • 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	ZZ012B	Ground to B-56

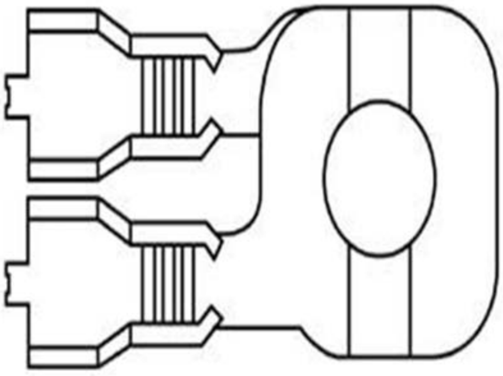
E-74 Ground Connector End View



4891426

Connector Part Information		• LA 210 • 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	HY01	Ground to Glow Plug Control Module, EGR Valve, VNT Control Module
—	BLK	EE08	Ground to Engine Oil Level Switch, Low Coolant Level Sensor

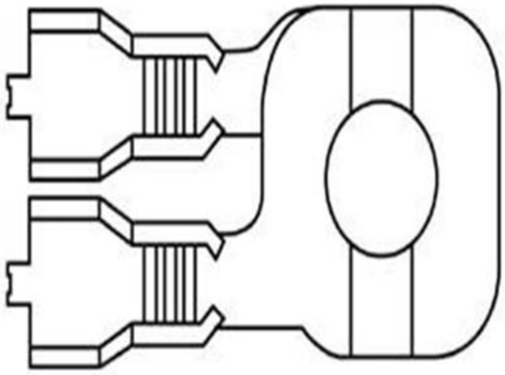
J-7 Ground Connector End View



4892337

Connector Part Information		• LA-08-R1 • 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	ZZ027C	Ground to Splice 5

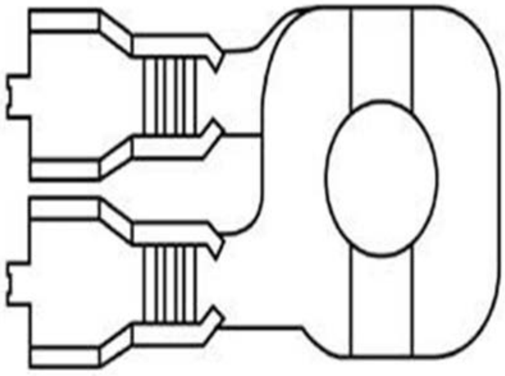
J-8 Ground Connector End View



4892337

Connector Part Information		• LA-08-L1 • 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	ZZ001C	Ground to Splice 2

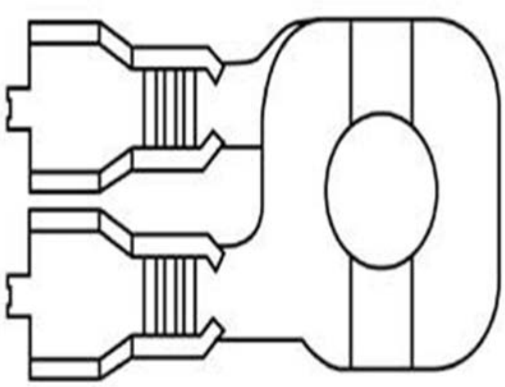
J-9 Ground Connector End View



4892337

Connector Part Information		• LA-08-R1 • 1-Way Eyelet	
Pin	Wire Color	Circuit Number	Function
—	BLK	ZZ028C	Ground to Splice 5

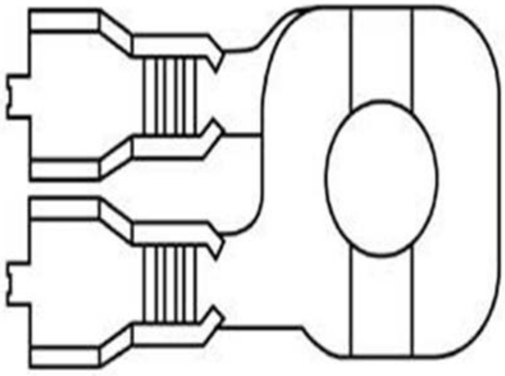
J-10 Ground Connector End View



4892337

Connector Part Information		• LA-08-L1 • 1-Way Eyelet	
Pin	Wire Color	Circuit Number	Function
—	BLK	ZZ024C	Ground to Splice 7

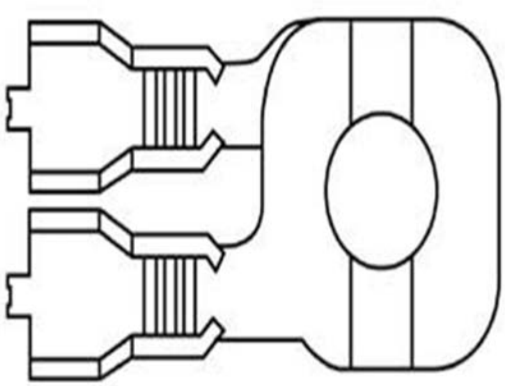
J-11 Ground Connector End View



4892337

Connector Part Information		- LA-08-L1 - 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	ZZ026C	Ground to Splice 2

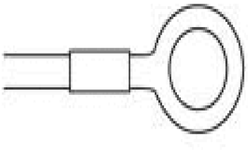
J-12 Ground Connector End View



4892337

Connector Part Information		- LA-08-R1 - 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	ZZ023C	Ground to Splice 7

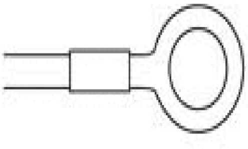
J-141 Ground Connector End View



4891426

Connector Part Information		- LA-08 - 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	FT006C	Ground to Splice 1

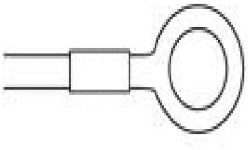
J-142 Ground Connector End View



4891426

Connector Part Information		- LA-08 - 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	FT007C	Ground to NOx Sensors 1 and 2
—	BLK	FT010C	Ground to DEF Tank Heater Coolant Control Valve

J-298 Ground Connector End View

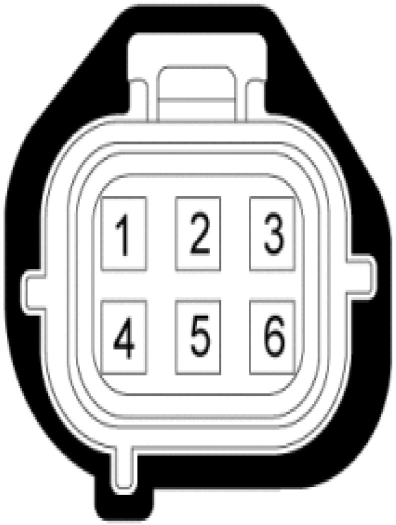


4891426

Connector Part Information		- 7009-1334 - 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK/BLU	IX013D	Ground for Rear Manufacture Connector

Component Connector End Views

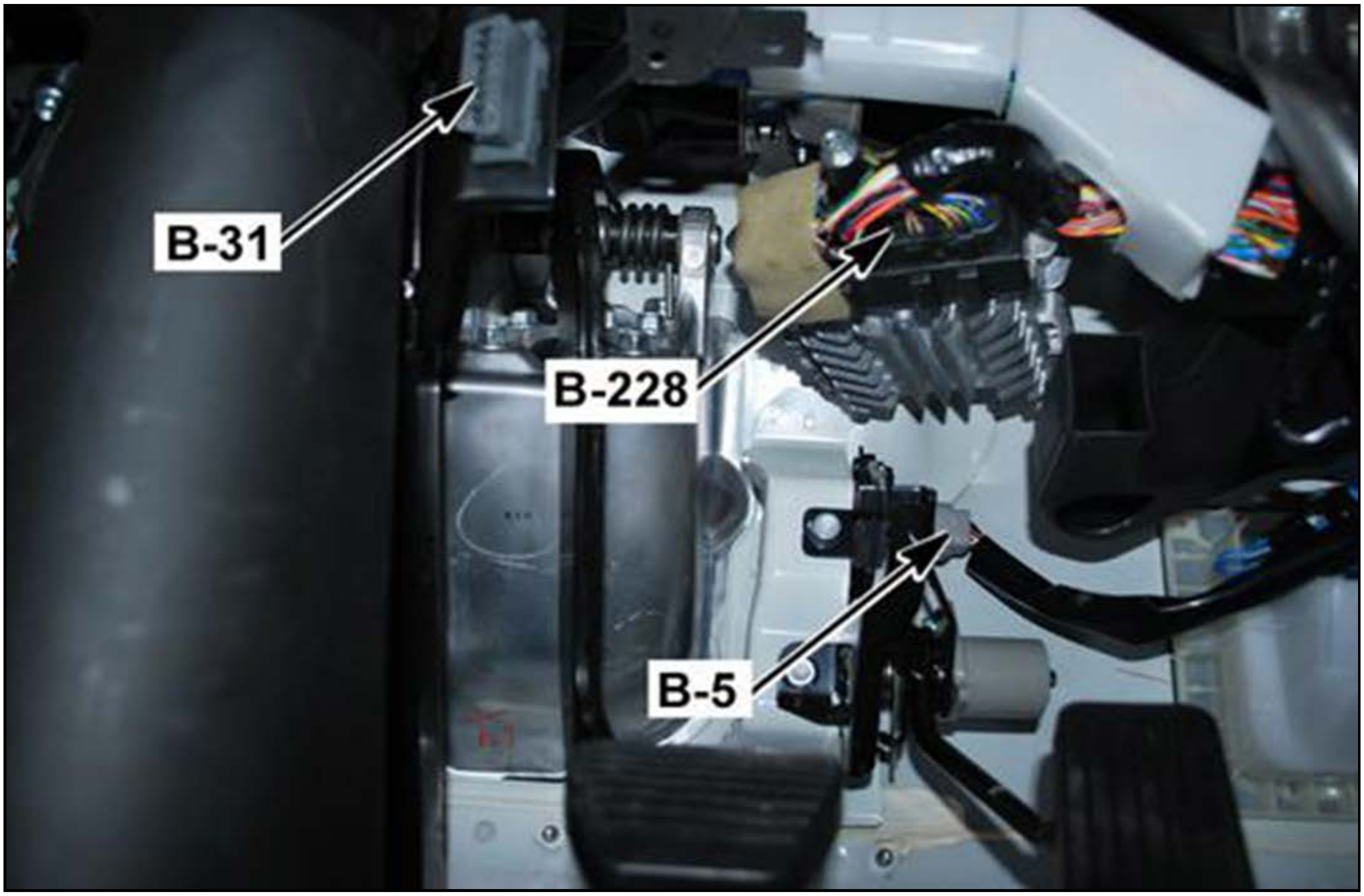
B-5 Accelerator Pedal Position (APP) Sensor



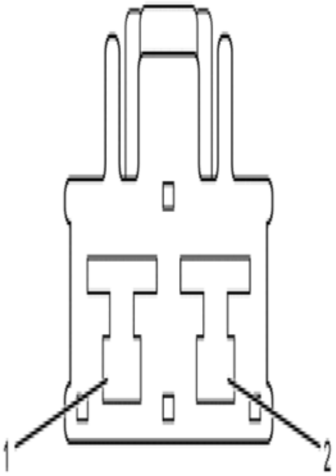
4894083

Connector Part Information		• 7383-7062-40 • 6-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRY	IC004B	Sensor 2, 5 Volt Reference 2
2	YEL	IC005B	Sensor 2, Signal
3	BLU	IC106B	Sensor 2, Low Reference
4	WHT	IC033B	Sensor 1, 5 Volt Reference 1
5	RED	IC023B	Sensor 1, Signal
6	BLK	IC032B	Sensor 1, Low Reference

Above the Accelerator Pedal


B-31
B-228
B-5
4894105

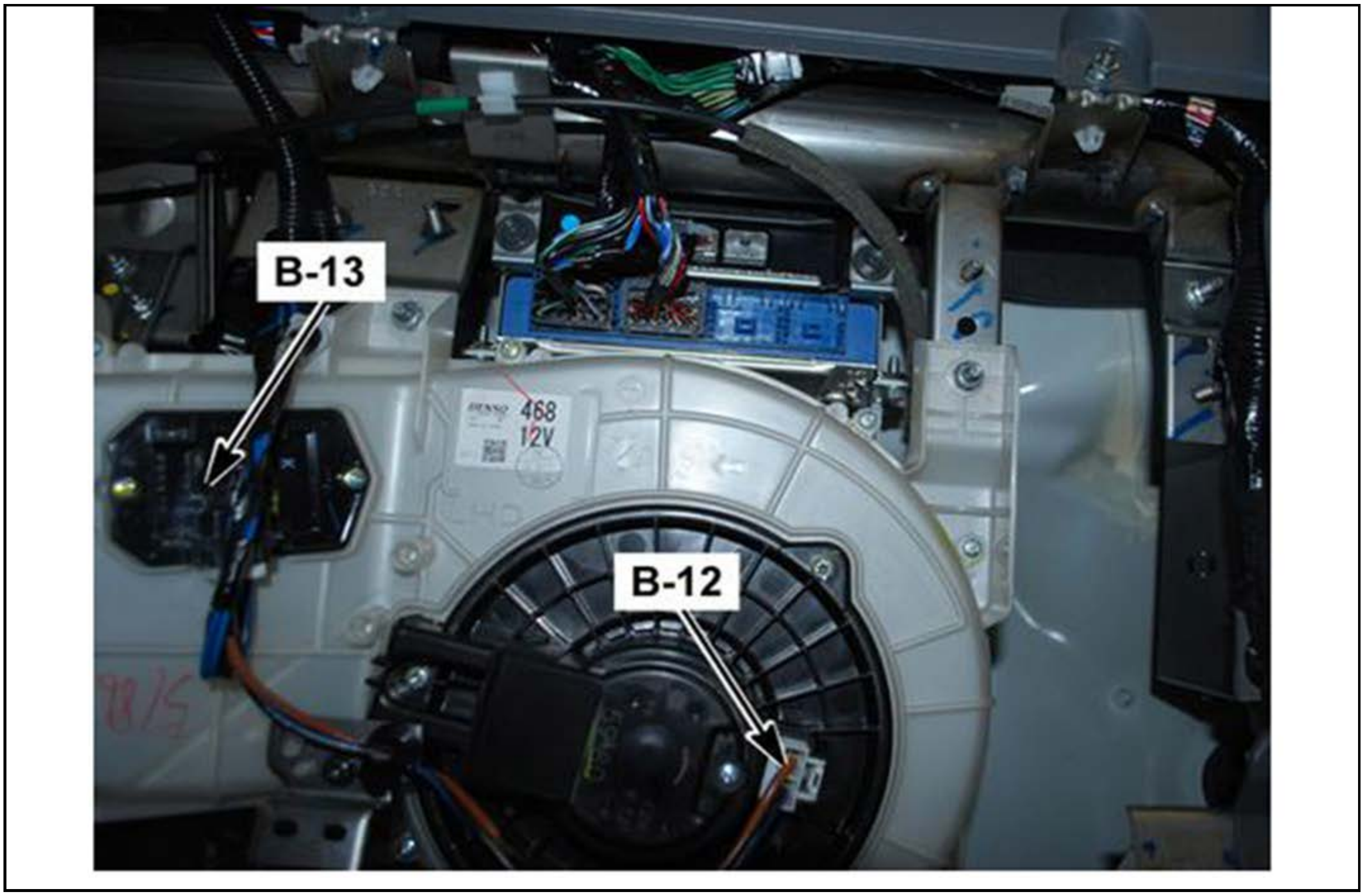
B-12 Blower Motor Connector End View



4894123

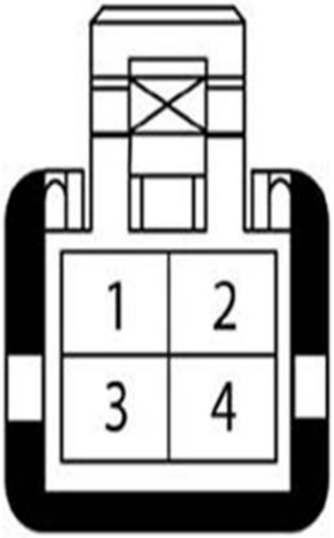
Connector Part Information	• 6098-1104 • 2-Way F (WHT)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK/BLU	HA016B	Blower Motor Control
2	BRN	HA005B	Blower Motor Voltage from Blower Relay (B- 215)

Behind the Lower Right Side of the I/P



4894128

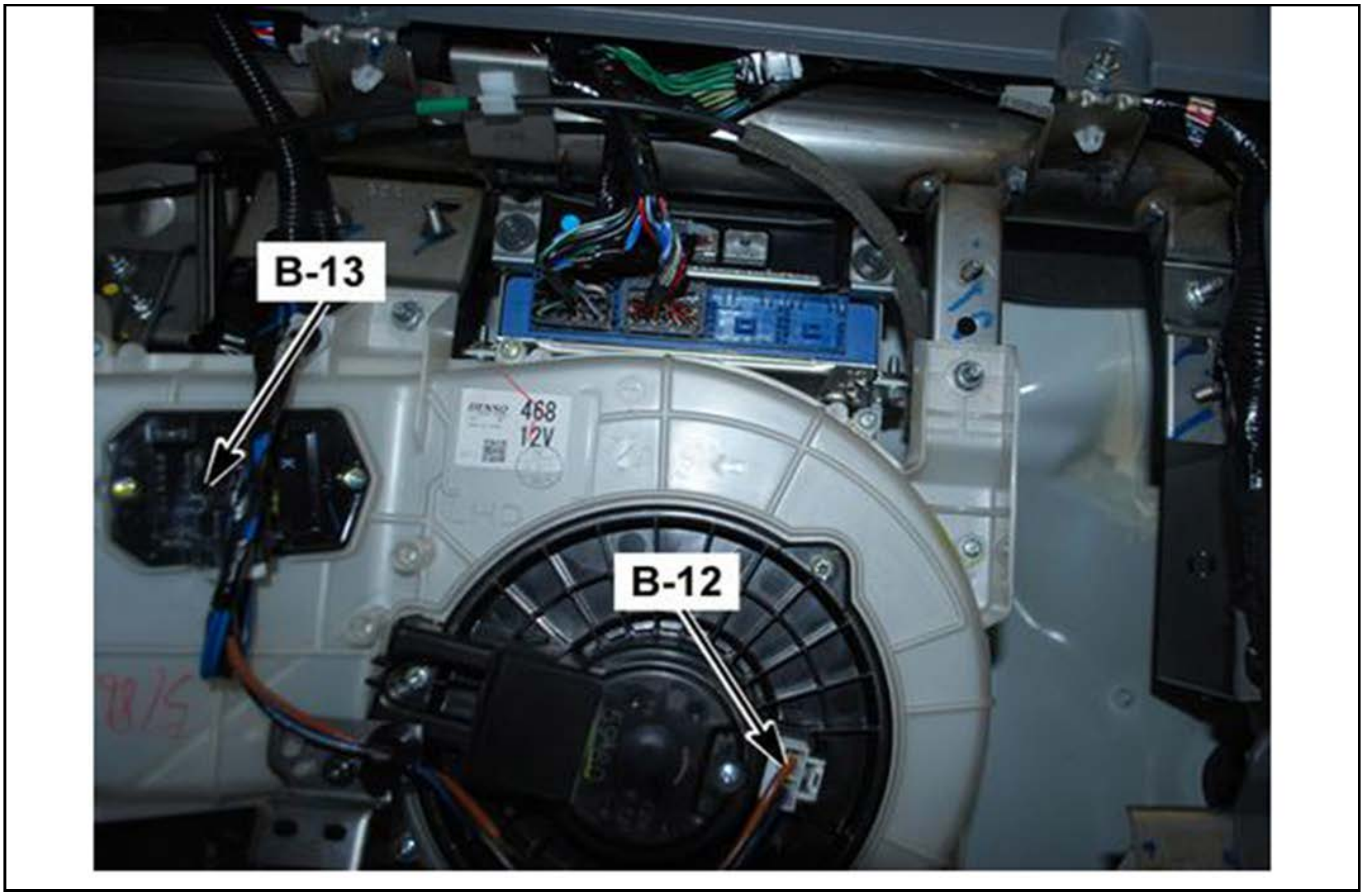
B-13 Blower Motor Resistor Connector End View



4894133

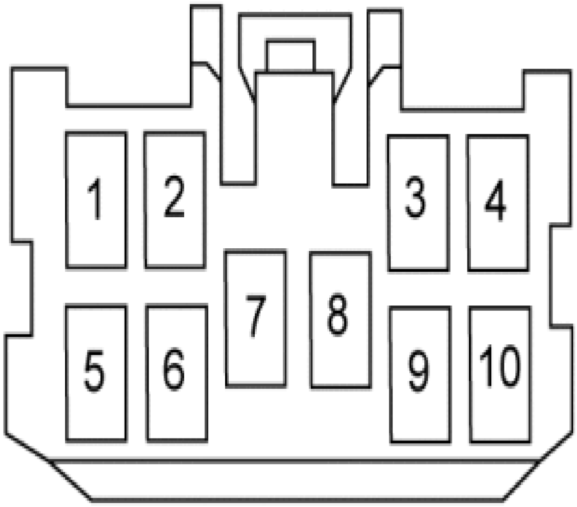
Connector Part Information		- 6089-0514 - 4-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK/BLU	HA004B	Blower Motor High Control
2	BLU	HA003B	Blower Motor M1 Control
3	BLU/BLK	HA002B	Blower Motor M2 Control
4	BLK	HX004B	Ground to B-48 Junction Block (B-53 Ground)

Behind the Lower Right Side of the I/P



4894128

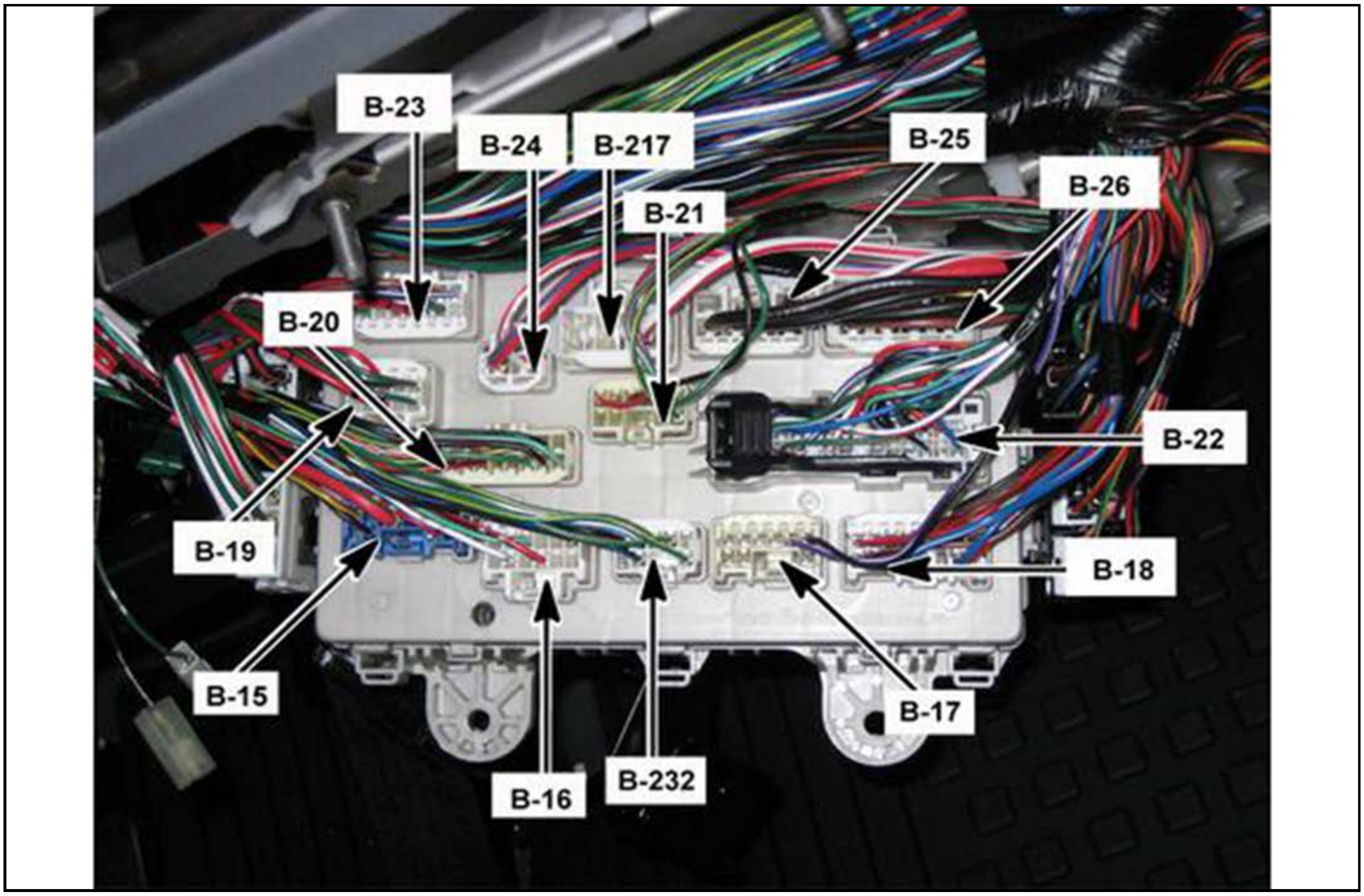
B-15 Fuse/Relay Center (Cab) Connector End View



4894168

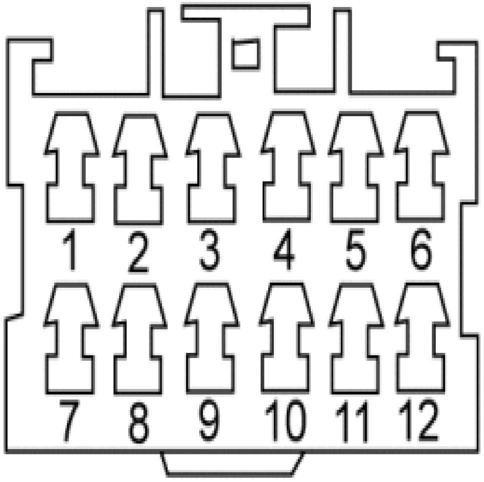
Connector Part Information		- 7383-1405-90 - 10-Way F (BLU)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	—	—	Not Used
2	BLK/RED	HA028B	Fuse F-30 Voltage (Fan Control Switch ON) to J/B 2 (B-139 pin 5)
3	—	—	Not Used
4	RED	HF001B	Battery Voltage from Fuse F-3
5	BRN/YEL	UA016B	Ignition Voltage from Fuse F-6
6	—	—	Not Used
7	RED/GRN	AA041B	X-2 DRL Relay Voltage (Switched Output Voltage) to DRL Module
8–10	—	—	Not Used

Behind the Center of the I/P


B-23
B-24
B-217
B-21
B-25
B-26
B-20
B-22
B-19
B-18
B-15
B-17
B-16
B-232

4894183

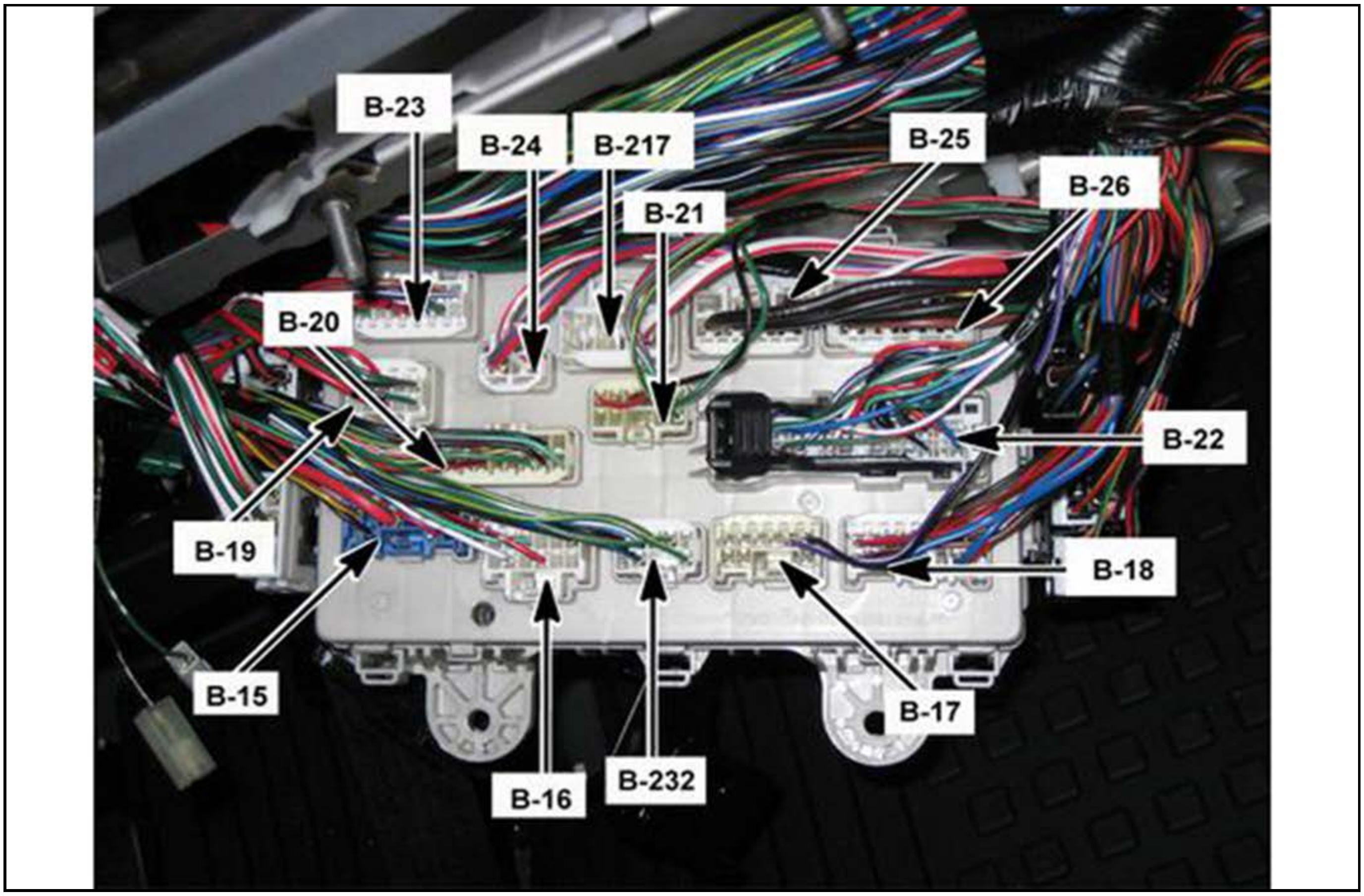
B-16 Fuse/Relay Center (Cab) Connector End View



4894185

Connector Part Information		• 7383-2416 • 12-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	—	—	Not Used
2	WHT/BLU	AA010B	Fuse F-9 Voltage (Headlamp Switch ON)
3–8	—	—	Not Used
9	LT GRN/RED	BA003B	Fuse F-28 Voltage (Headlamp Switch ON) from Fuse/ Relay Center (Cab) (B-18 pin 10)
10–12	—	—	Not Used

Behind the Center of the I/P


B-23
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B-21
B-20
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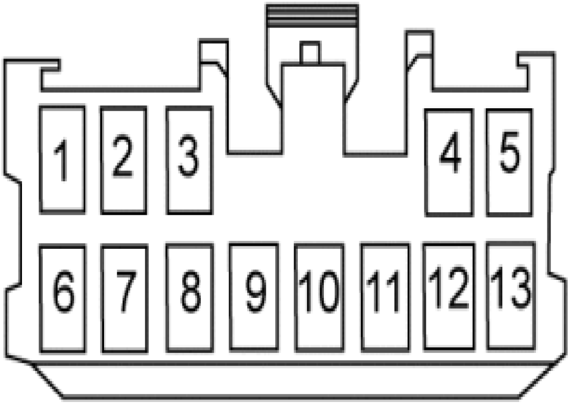
B-17
B-16
B-232
4894183

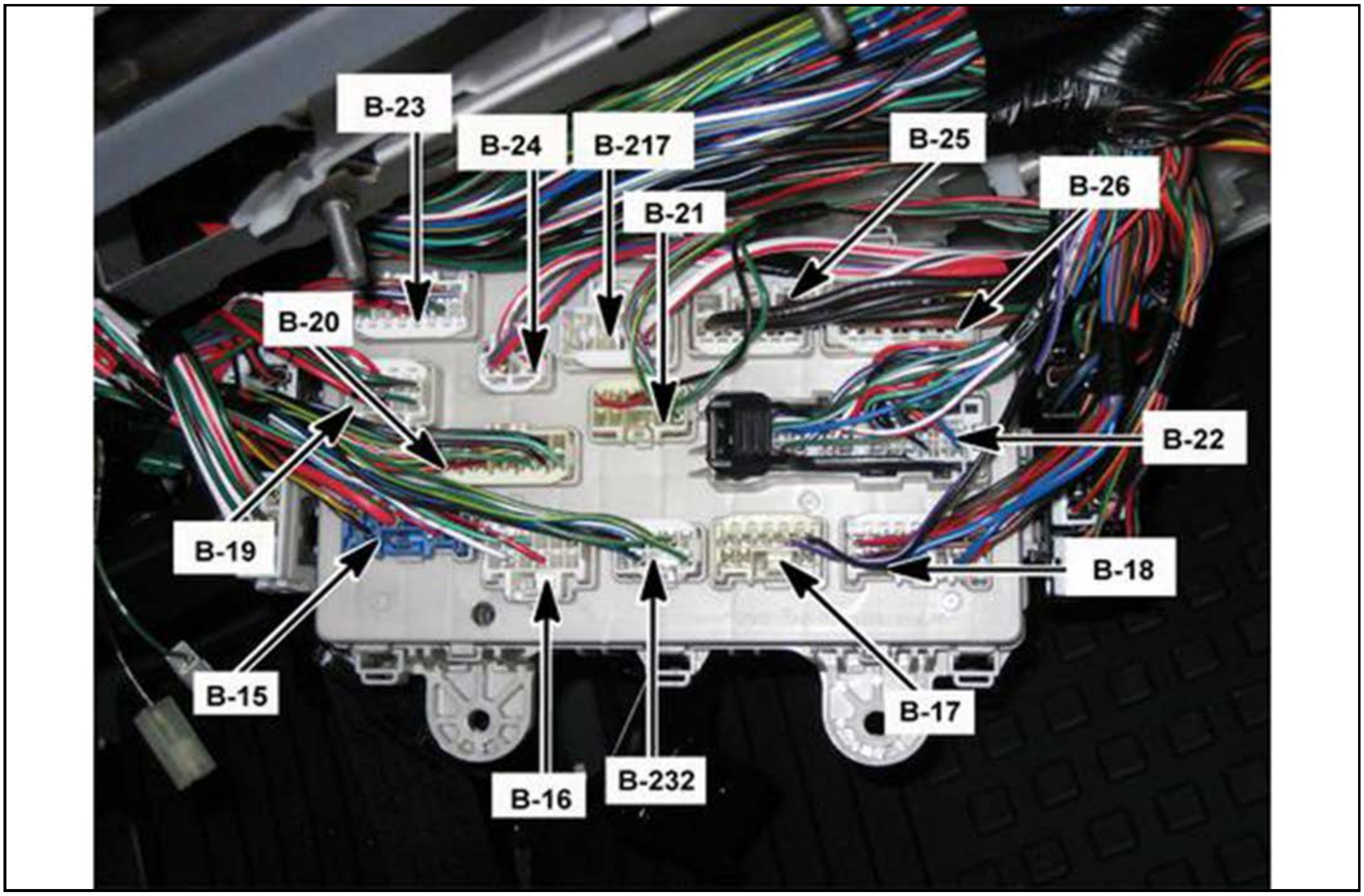
B-18 Fuse/Relay Center (Cab) Connector End View



4894193

Connector Part Information		• 7383-2412 • 13-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK/ORN	IC081B	Ignition Voltage from Fuse F-20
2	BLU/WHT	FA012B	Ignition Voltage from Fuse F-8
3	BRN/WHT	FA001B	Wiper Low Speed Control Voltage
4	BLU/ORN	FA015B	Wiper Main Relay (X-6) to Splice 20
5	RED	JA001B	Battery Voltage from Fuse F-26
6	RED/BLU	AA003B	Headlight Low Relay Coil Control to Combination Switch
7	RED/WHT	AA002B	Headlamp High Relay Coil Control to J/B 1 (B- 137 pin 3)
8	—	—	Not Used
9	RED/BLK	DA001B	Horn Supply Voltage from Horn Relay (Switched Output Voltage)
10	LT GRN/RED	BA003B	Fuse F-28 Voltage (Headlight Switch ON) to Fuse/Relay Center (Cab) B-16 pin 9
11	RED/BLK	JA104B	Fuse F-29 Voltage (Headlight Switch ON) to Cornering Light Relay (X-5)
12	BLK/GRN	FA007B	Wiper High Low Relay Control to Wiper Exhaust Brake Switch
13	BRN/BLK	FA002B	Wiper High Speed Control Voltage

Behind the Center of the I/P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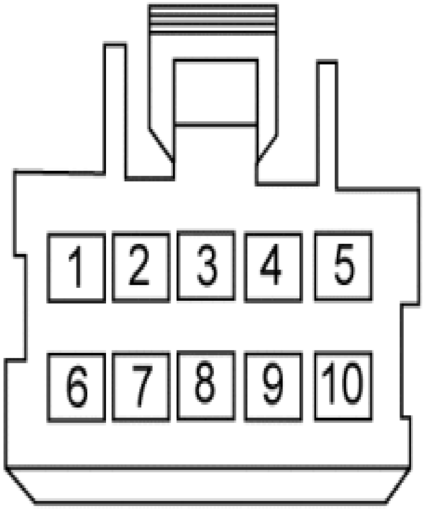
B-17
B-16
B-232

4894183

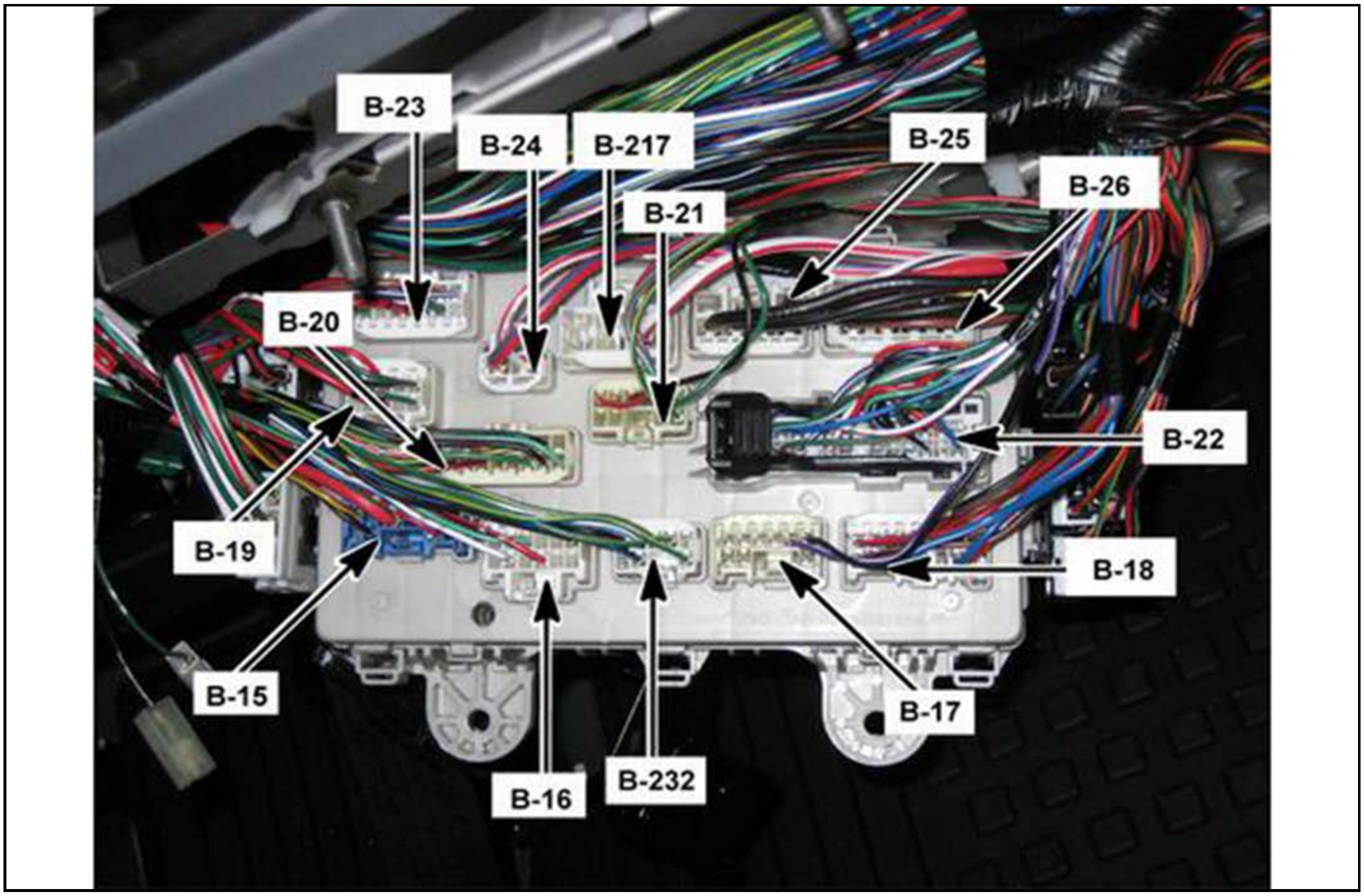
B-19 Fuse/Relay Center (Cab) Connector End View



4894201

Connector Part Information		- 7383-6323 - 10-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	—	—	Not Used
2	GRN	VA118B	Battery Voltage from Fuse F-4 to J/B 2 (B-143 pin 1)
3	RED	AA009B	Fuse F-14 Voltage (Headlamp Switch ON)
4	GRN/WHT	IC013B	Stop Lamp Relay (Coil Control) to Stop Lamp Switch Diode
5	GRN/RED	BA015B	Fuse F-27 Voltage (Headlamp Switch ON) to Front Park Lamp (RH)
6	RED/BLK	AA043B	Battery Voltage from Fuse F-10 from Fuse/Relay Center (Cab) (B-20 pin 14)
7	WHT/RED	AA012B	Fuse F-11 Voltage (Headlamp Switch ON)
8	RED	AA001B	Fuse F-14 Voltage (Headlamp Switch ON)
9	—	—	Not Used
10	GRN/RED	BA016B	Fuse F-27 Voltage (Headlamp Switch ON) to Front Park Lamp (LH)

Behind the Center of the I/P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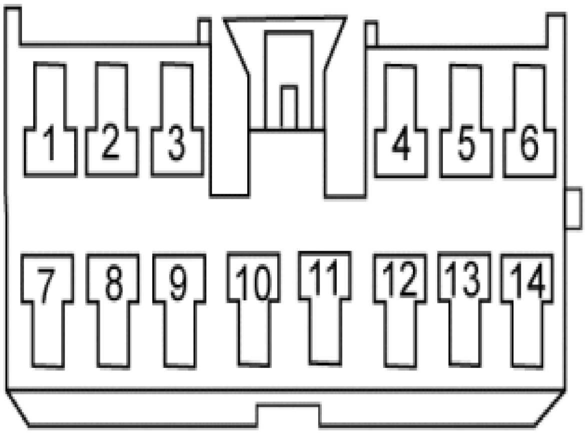
B-232

4894183

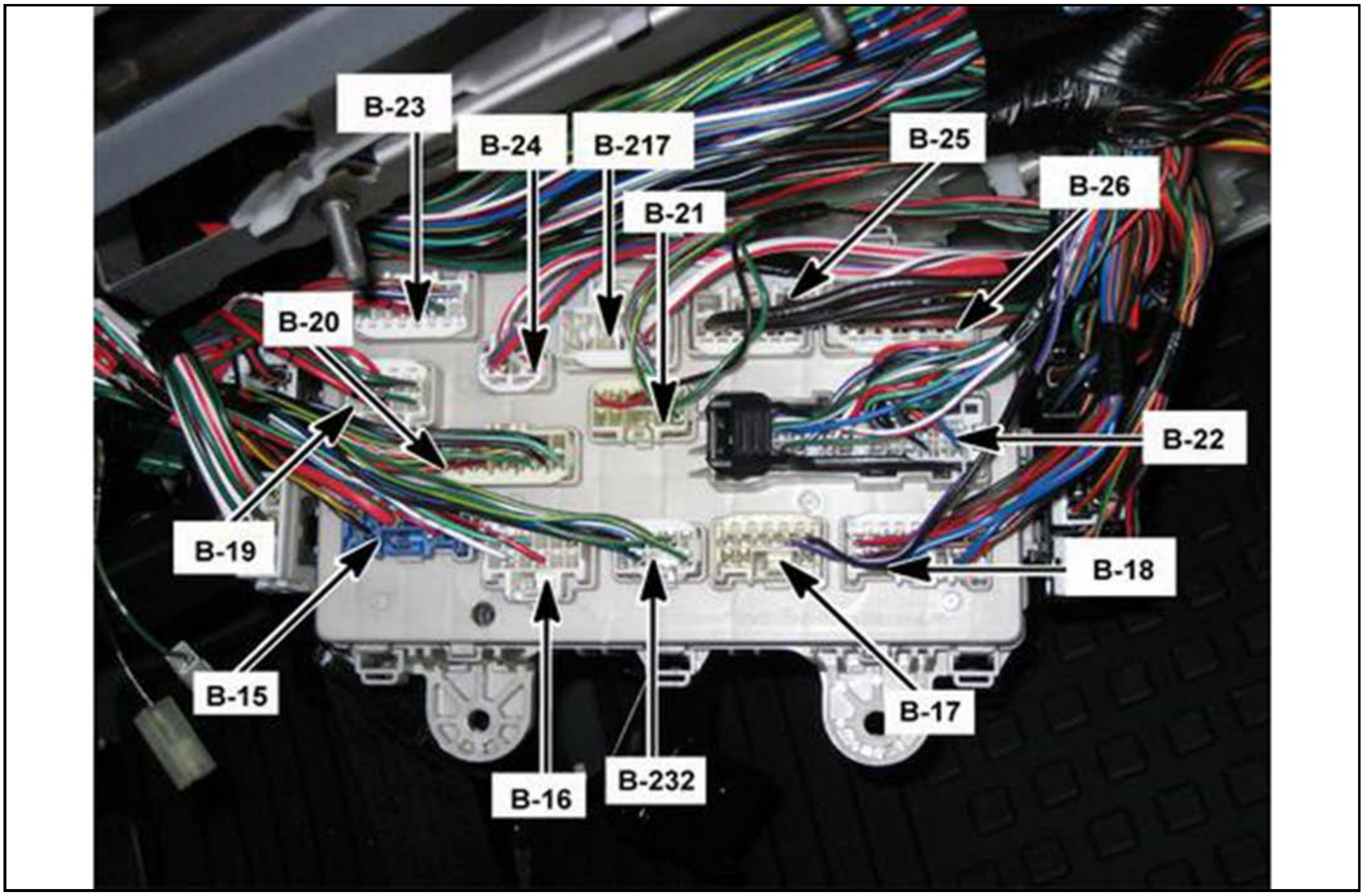
B-20 Fuse/Relay Center (Cab)



4894210

Connector Part Information	• 7383-1140 • 14-Way F (WHT)		
Pin	Wire Color	Circuit Number	Function
1	—	—	Not Used
2	BLK/RED	JA004B	Switched Output Voltage from Cornering Lamp Relay
3	—	—	Not Used
4	GRN/WHT	BB100B	Ignition Voltage from Fuse F-7 ABS
5	WHT/RED	WA004B	Voltage from Fuse F-16
6	—	—	Not Used
7	LT GRN/RED	IC074B	Fuse F-28 Voltage (Headlamp Switch ON) to PTO Switch
8	BLK	UX002B	Ground to B-601 Splice Pack (B-51 Ground)
9	GRN/YEL	PA151B	Ignition Voltage from Fuse F-21 to J/B 2 (B-140 pin 13)
10–12	—	—	Not Used
13	BLU/YEL	DA005B	Voltage from Fuse F-16
14	RED/BLK	AA043B	Battery Voltage from Fuse F-10

Behind the Center of the I/P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B-22
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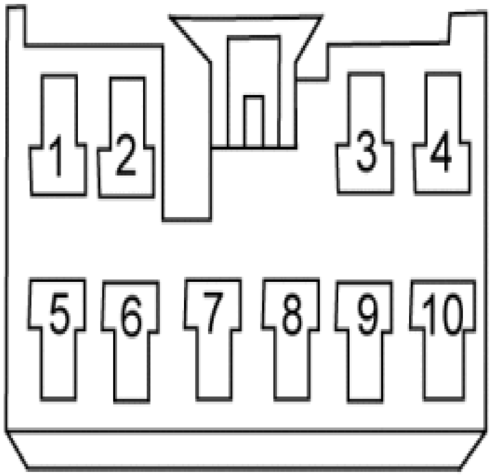
B-15
B-17
B-16
B-232

4894183

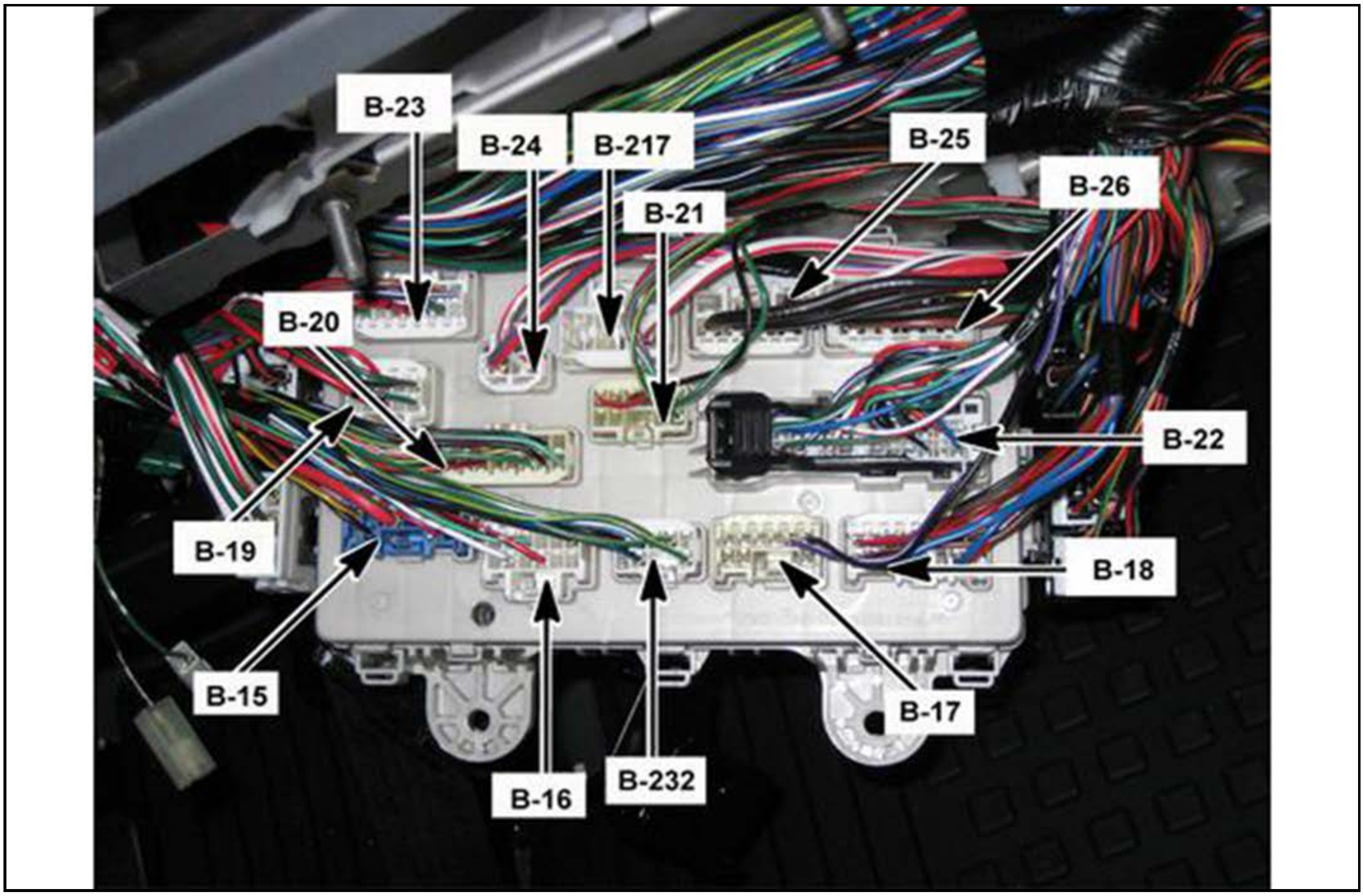
B-21 Fuse/Relay Center (Cab)



4894219

Connector Part Information		• 7383-1108 • 10-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1–2	—	—	Not Used
3	GRN/WHT	CA003B	Stop Lamp Relay (Coil Control) to Stop Lamp Switch 1
4	GRN/YEL	JA016B	Ignition Voltage from Fuse F-21 to Flasher Module
5	RED/BLU	AA040B	X-2 DRL Relay Coil Control to DRL Module
6	—	—	Not Used
7	ORN/BLU	JA110B	Cornering Lamp Relay Coil Control to Diode 3
8	—	—	Not Used
9	LT GRN/RED	BA018B	Fuse F-28 Voltage (Headlamp Switch ON) to Instrument Panel Cluster (IPC)
10	—	—	Not Used

Behind the Center of the I/P


B-23
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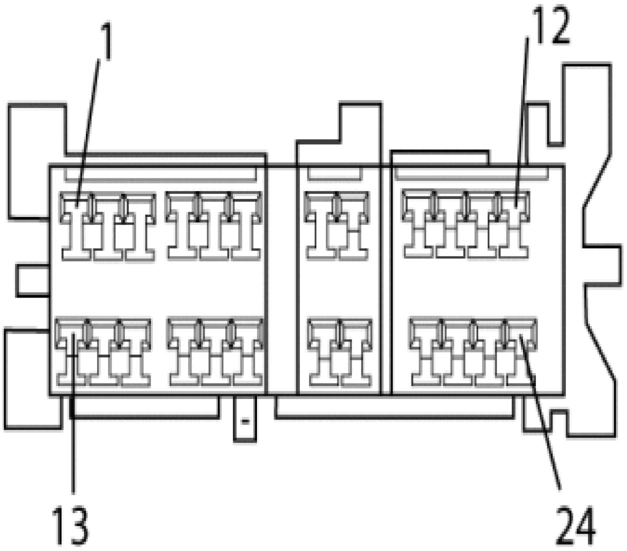
B-18
B-15
B-17
B-16
B-232

4894183

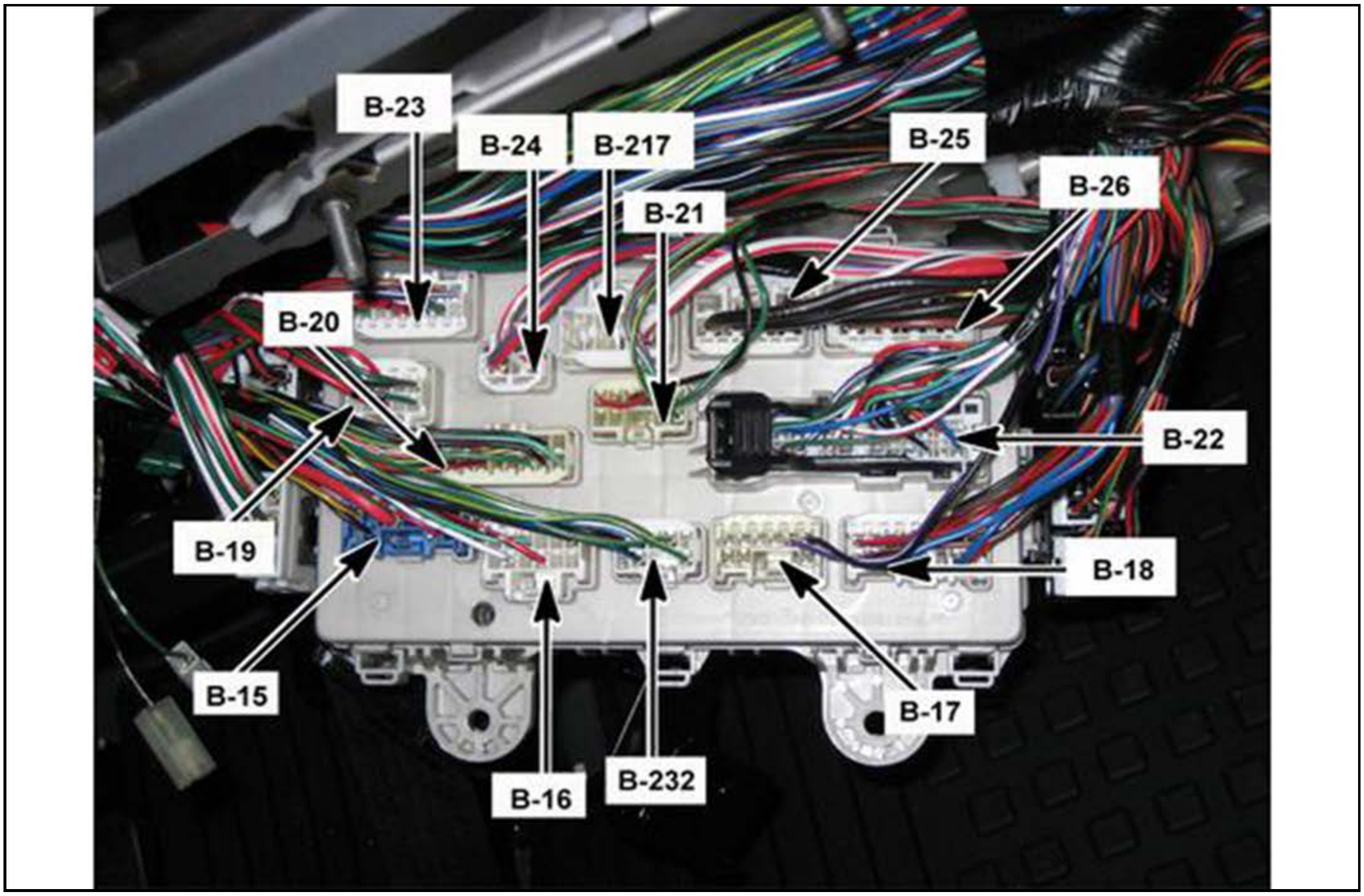
B-22 Fuse/Relay Center (Cab)



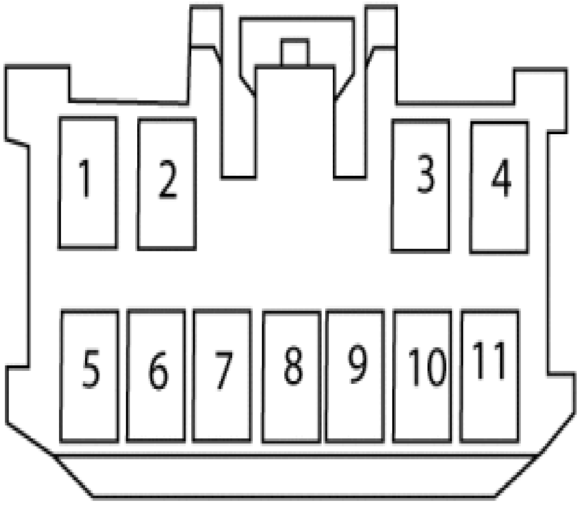
4894232

Connector Part Information		• 7483-6122 • 24-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	—	—	Not Used
2	RED/YEL	SA103B	Ignition Voltage from Fuse F-24 to J/B 12 (B- 146 pin 4)
3	BLK/BLU	PA012B	Battery Voltage from Fuse F-22
4	GRN	CA101B	Switched Output Voltage from X-1 Stop Lamp Relay
5	BLK	ZZ078B	Ground to J/B 2 (B-144 pin 5) (B-53 Ground)
6	LT GRN/RED	HA011B	Fuse F-28 Voltage (Headlamp Switch ON) to HVAC Control Panel
7	RED	IA001B	Battery Voltage from Fuse F-3 to J/B 2 (B-144 pin 9)
8	WHT/RED	WA015B	Voltage from Fuse F-16
9	GRN/RED	BA057B	Fuse F-27 Voltage (Headlamp Switch ON) to L- 23 Splice Pack
10	BLU	DA004B	Horn Relay X-7 Coil Control
11	LT GRN/RED	BA022B	Fuse F-28 Voltage (Headlamp Switch ON) to J/B 1 (B-131 pin 14)
12	GRN/WHT	IC190B	Stop Lamp Relay (Coil Control) to Stop Lamp Switch 2
13	BLU/RED	FA006B	X-6 Wiper Main Relay Coil Control to J/B 1 (B- 136 pin 17)
14	—	—	Not Used
15	RED/BLK	JA104B	Fuse F-30 Voltage (Fan Control Switch ON) to X-5 Corning Lamp Relay
16	—	—	Not Used
17	BLK/WHT	LA003B	Ignition Voltage from Fuse F-13 to X-17 Starter Relay
18–21	—	—	Not Used
22	GRN/ORN	BA010B	X-16 Tail Lamp Relay Coil Control to Combination Switch
23–24	—	—	Not Used

Behind the Center of the I/P


B-23
B-24
B-217
B-21
B-25
B-26
B-20
B-22
B-19
B-18
B-15
B-17
B-16
B-232
4894183

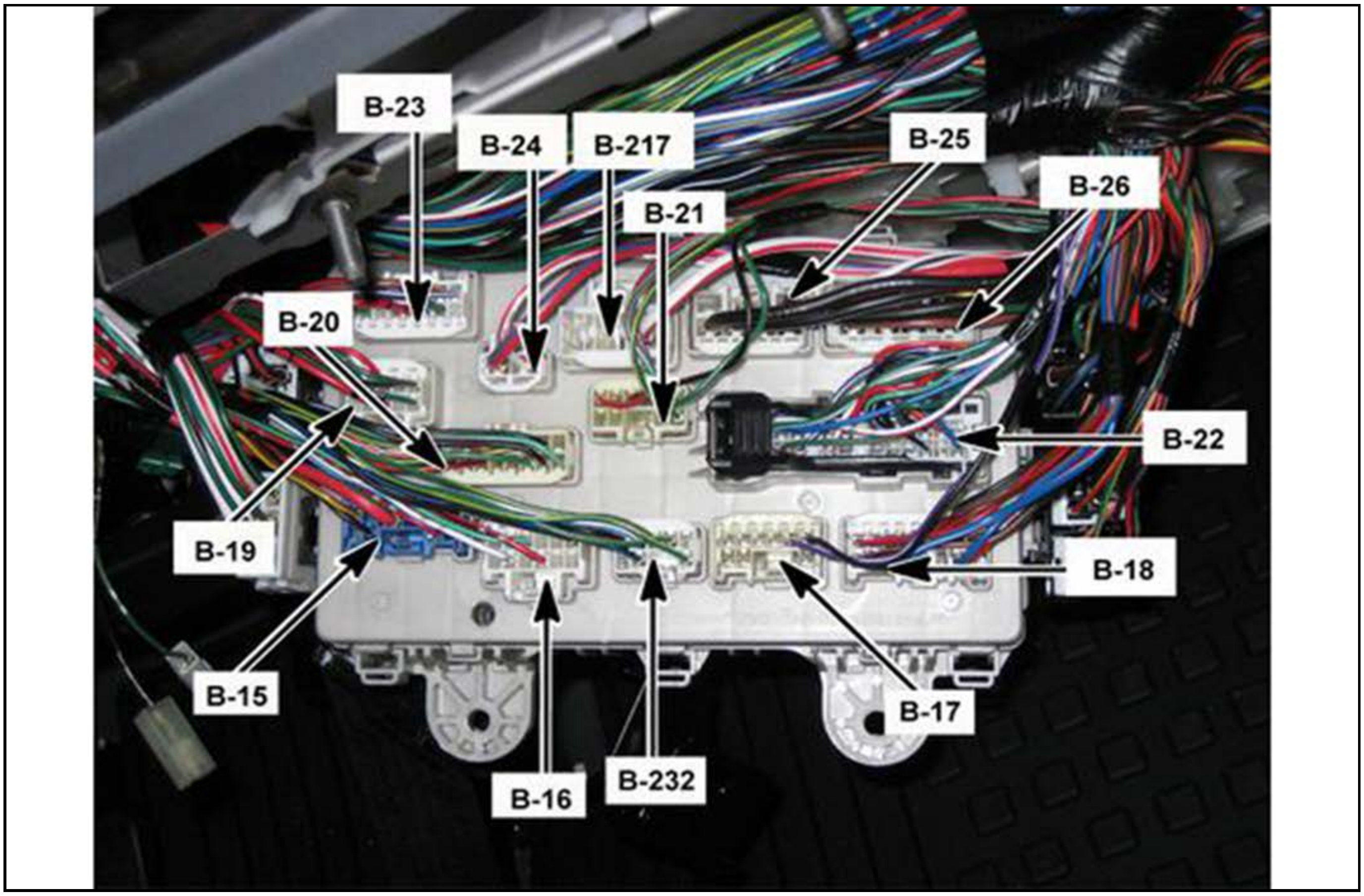
B-23 Fuse/Relay Center (Cab) Connector End View



4894243

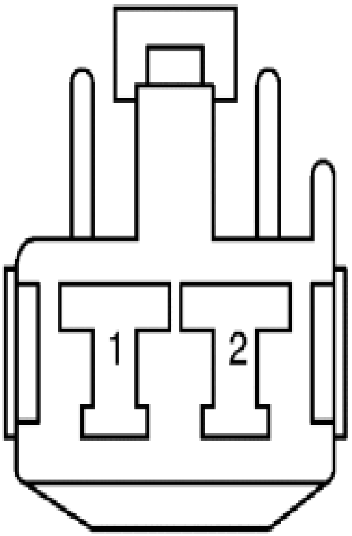
Connector Part Information		• 7383-2511 • 11-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	—	—	Not Used
2	BRN/YEL	UA003B	Ignition Voltage from Fuse F-6
3	LT GRN/RED	IC093B	Fuse F-28 Voltage (Headlamp Switch ON) to PTO Up/Down Switch (Speed Control)
4	RED/YEL	WA107B	Ignition Voltage from Fuse F-23
5	WHT/RED	HA027B	Voltage from Fuse F-17
6	GRN/RED	BA026B	Fuse F-27 Voltage (Headlamp Switch ON)
7	—	—	Not Used
8	RED	AA011B	Fuse F-15 Voltage (Headlamp Switch ON)
9	RED/BLK	PA031B	Battery Voltage from Fuse F-18 to J/B 1 (B-133 pin 13)
10	—	—	Not Used
11	GRN/YEL	KF022B	Ignition Voltage from Fuse F-21 to Mimamori Module

Behind the Center of the I/P


B-23
B-24
B-217
B-21
B-25
B-26
B-20
B-22
B-19
B-18
B-15
B-17
B-16
B-232

4894183

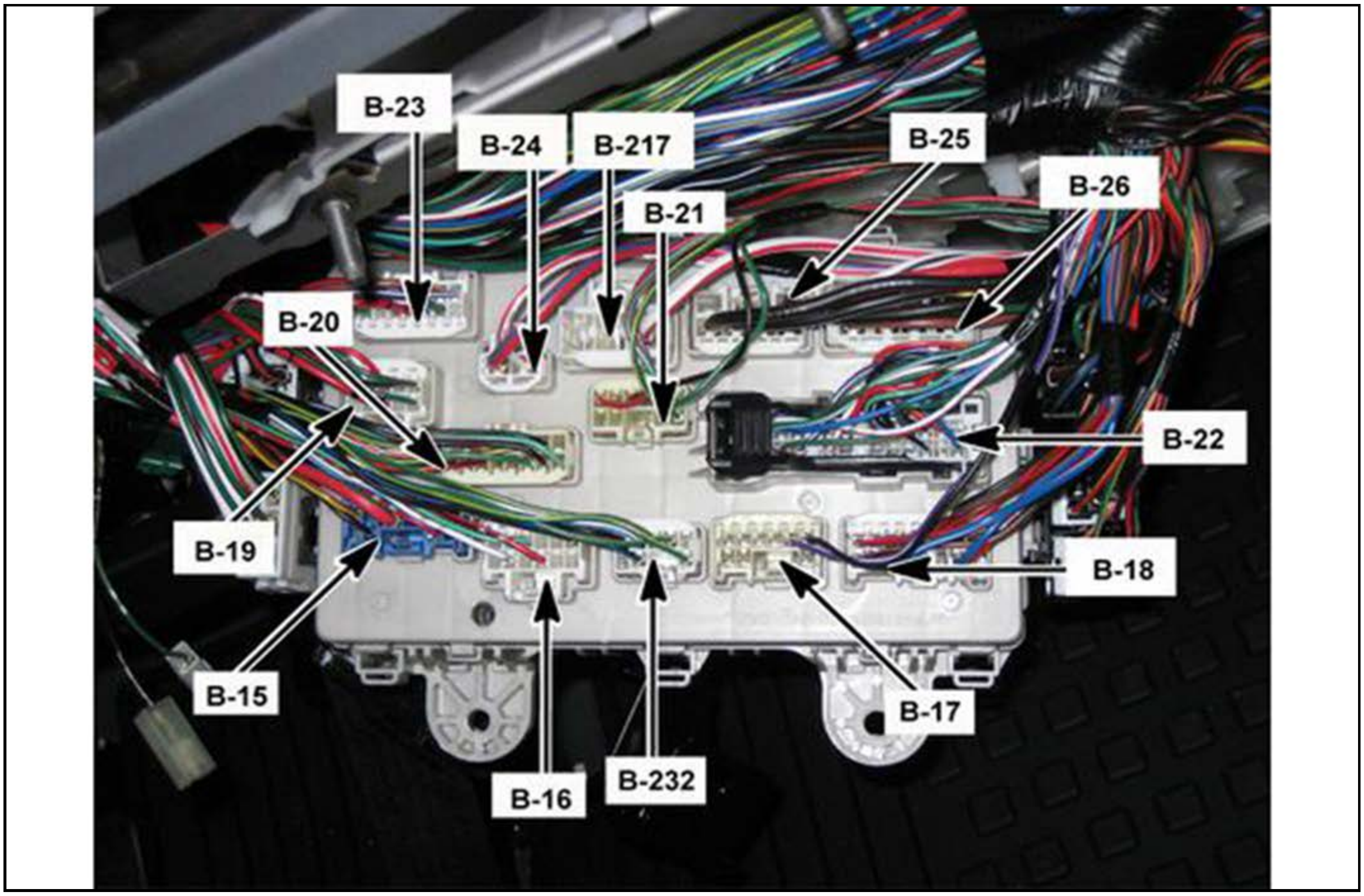
B-24 Fuse/Relay Center (Cab)



4894250

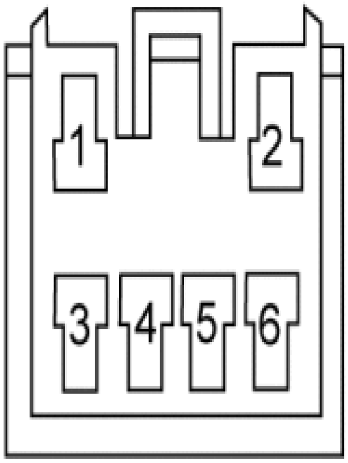
Connector Part Information	• 7383-1616 • 2-Way F (WHT)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT/RED	PA130B	Ignition Voltage from Ignition Switch for Fuses F-7, F-18, F-20, F-21
2	RED/BLU	PA008B	Ignition Voltage from Ignition Switch for Fuses F-16, F-17

Behind the Center of the I/P


B-23
B-24
B-217
B-21
B-25
B-26
B-20
B-22
B-19
B-18
B-15
B-17
B-16
B-232

4894183

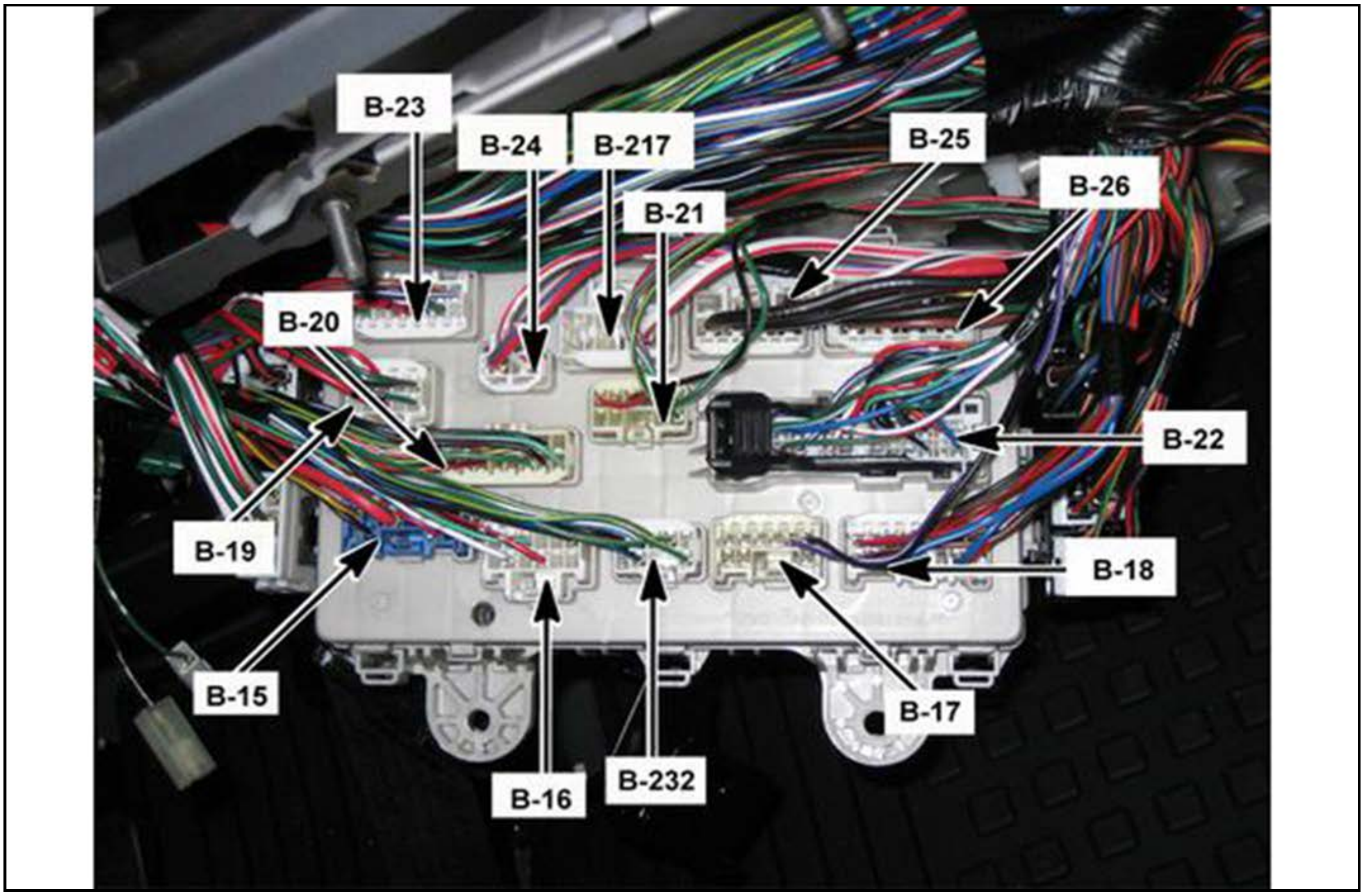
B-25 Fuse/Relay Center (Cab)



4894255

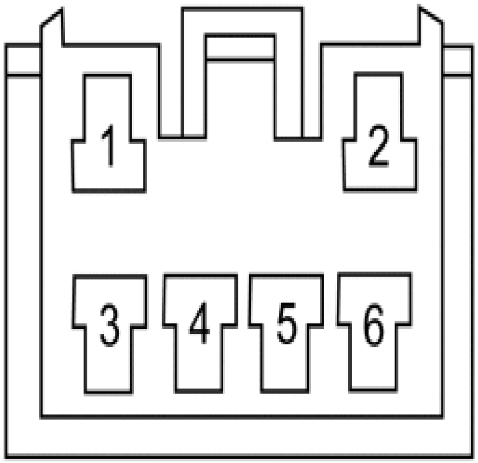
Connector Part Information		• 7383-4860 • 6-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK/RED	PA104B	Battery Voltage from Splice 26 (Fuse FL-6)
2–3	—	—	Not Used
4	RED/YEL	PA007B	Ignition Voltage from Ignition Switch for Fuses F-23, F-24
5	BLK/WHT	PA029B	Ignition Voltage from Ignition Switch for Fuse F- 13
6	BLK/RED	PA014B	Battery Voltage from Splice 26 (Fuse FL-6) to Ignition Switch

Behind the Center of the I/P


B-23
B-24
B-217
B-21
B-25
B-26
B-20
B-22
B-19
B-18
B-15
B-17
B-16
B-232

4894183

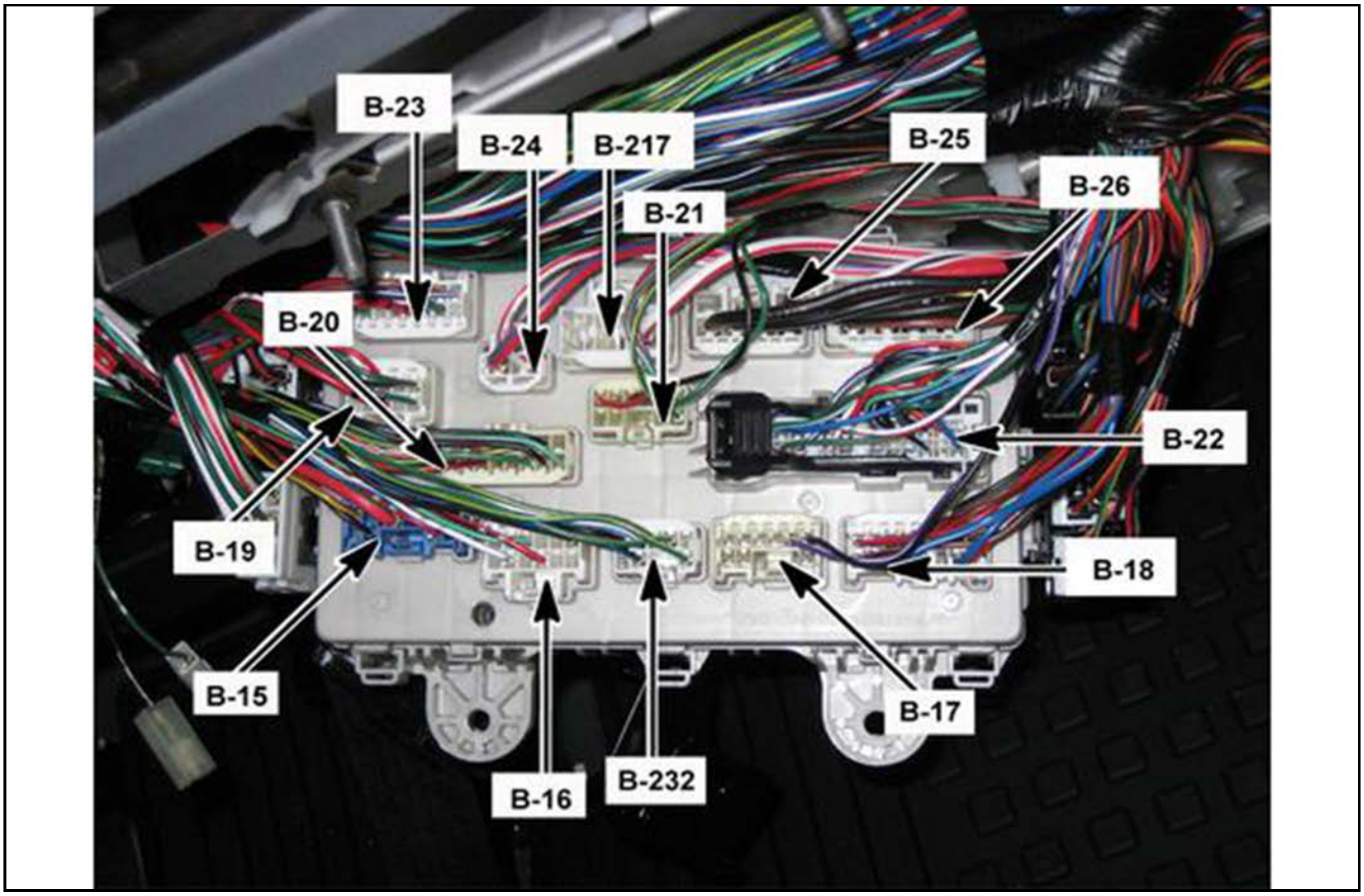
B-26 Fuse/Relay Center (Cab)



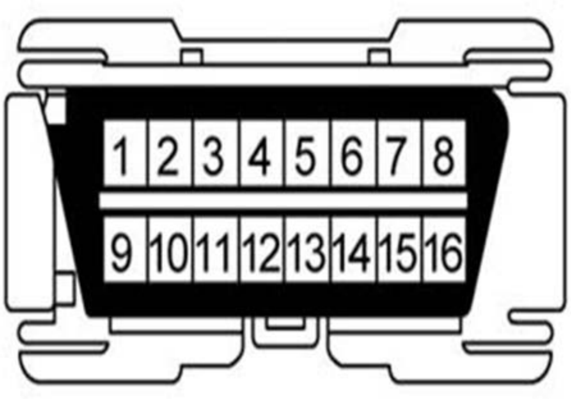
4894262

Connector Part Information		• 7383-4861 • 6-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK/YEL	PA162B	Battery Voltage from Splice 27 (Fuse FL-5)
2	WHT/BLK	PA011B	Battery Voltage from Fuse FL-10
3	—	—	Not Used
4	GRN/BLK	PA067B	Battery Voltage from Fuse F-32
5	WHT/RED	PA018B	Battery Voltage from Fuse FL-8
6	BRN	HA020B	Fuse F-30 Supply Voltage, Switched Output Voltage from Blower Relay

Behind the Center of the I/P


B-23
B-24
B-217
B-21
B-25
B-26
B-20
B-22
B-19
B-18
B-15
B-17
B-16
B-232
4894183

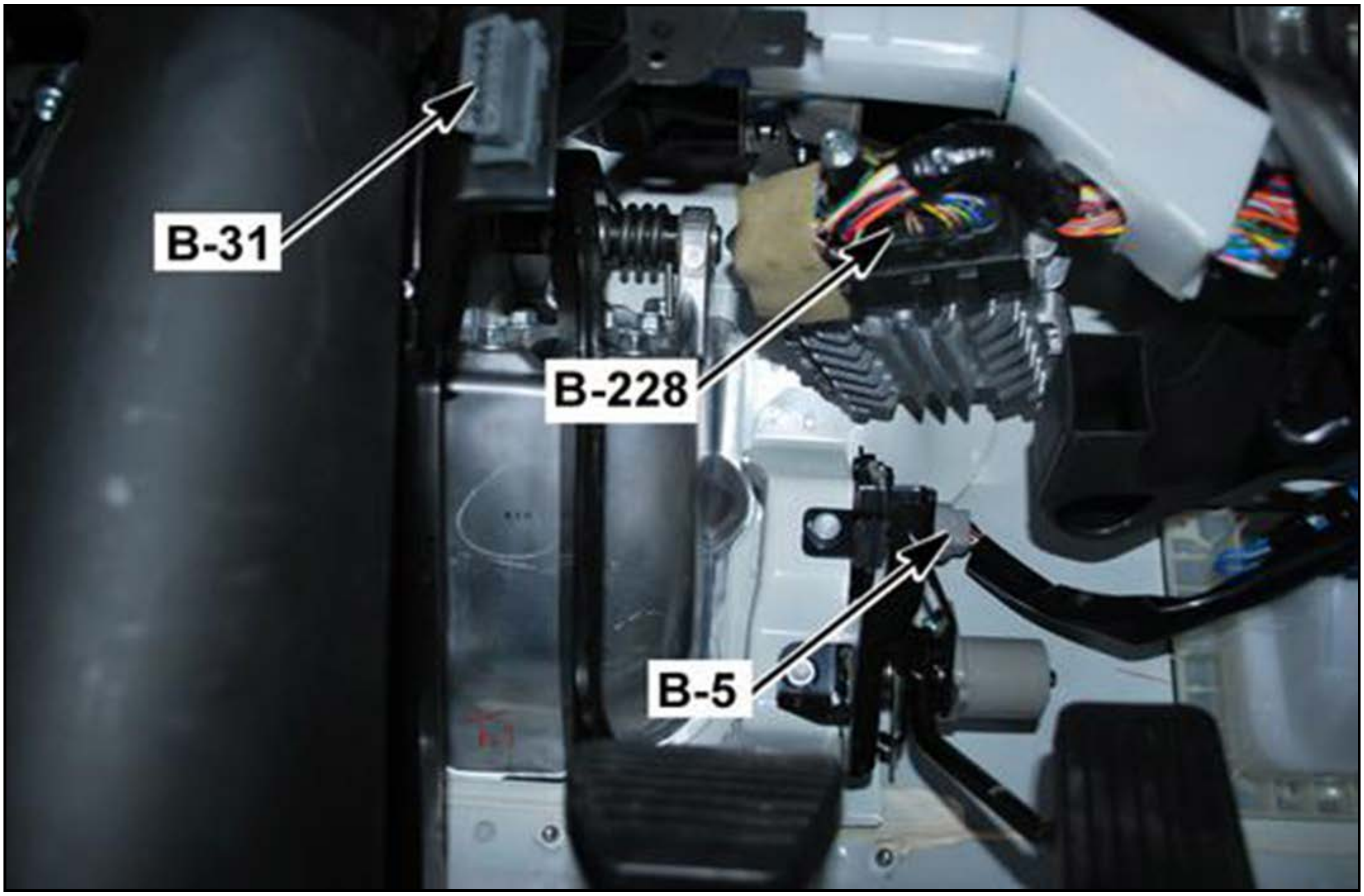
B-31 Data Link Connector (DLC)



4894270

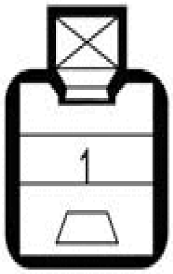
Connector Part Information		• MX8-C-165-C • 16-Way F (LT GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1–3	—	—	Not Used
4	BLK	ZZ009B	Ground to B-600 Splice Pack (B-51 Ground)
5	BLK	ZZ010B	Ground to J/B 2 (B-141 pin 15) (B-53 Ground)
6	GRN/WHT	TF042B	ISO 15765 CAN 2 High
7	LT BLU	MA011B	ISO 14230 Communication
8–11	—	—	Not Used
12	BLK/ORN	MA012B	Diagnostic Switch Signal from IPC
13	WHT/VIO	BB090B	Diagnostic Switch for EBCM
14	GRN	TF041B	ISO 15765 CAN 2 Low
15	—	—	Not Used
16	RED	HF001B	Battery Voltage from Fuse F-3 from Fuse/Relay Center (Cab)

Above the Accelerator Pedal, on the Right Side of the Steering Column



4894285

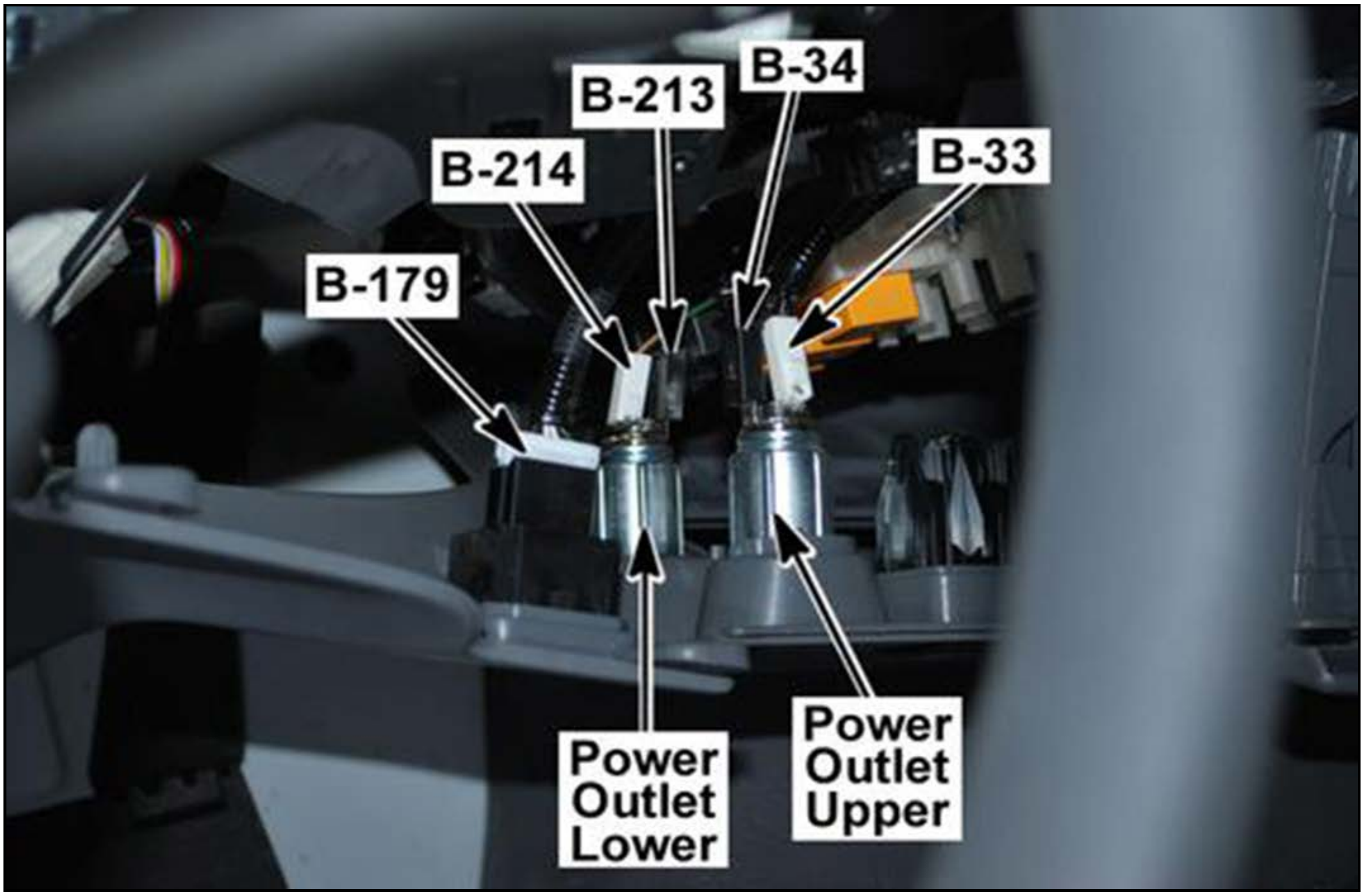
B-33 KPower Outlet Upper Connector End View



4894291

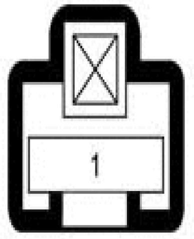
Connector Part Information		• 7323-8410 • 1-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/YEL	SA001B	Ignition Voltage from Fuse A-1

Center of the I/P, Left of the Fuse/Relay Center (Cab)


B-34
B-213
B-214
B-33
B-179
Power Outlet Lower
Power Outlet Upper

4894297

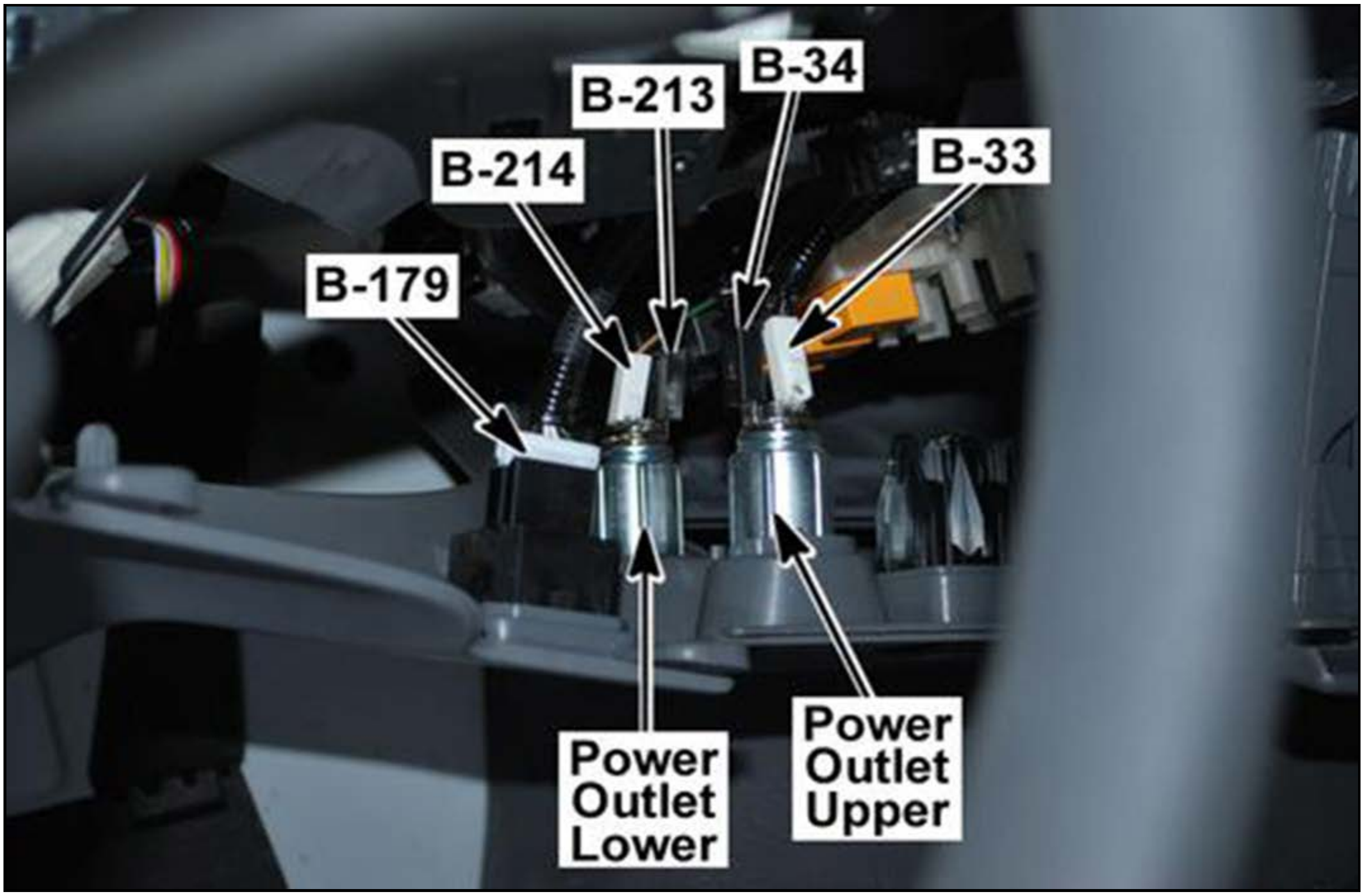
B-34 Power Outlet Upper



4894301

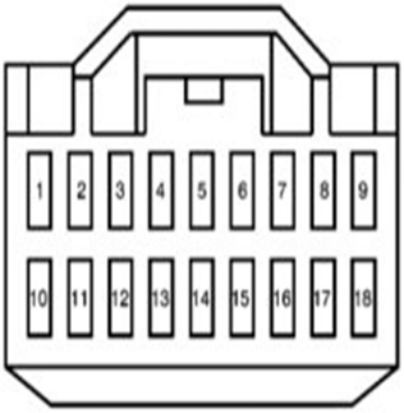
Connector Part Information		• 174090-2 • 1-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	SX001B	Ground to B-379 Splice Pack (B-60 and B-51 Ground)

Center of the I/P, Left of the Fuse/Relay Center (Cab)


B-34
B-213
B-33
B-214
B-179
Power Outlet Lower
Power Outlet Upper

4894297

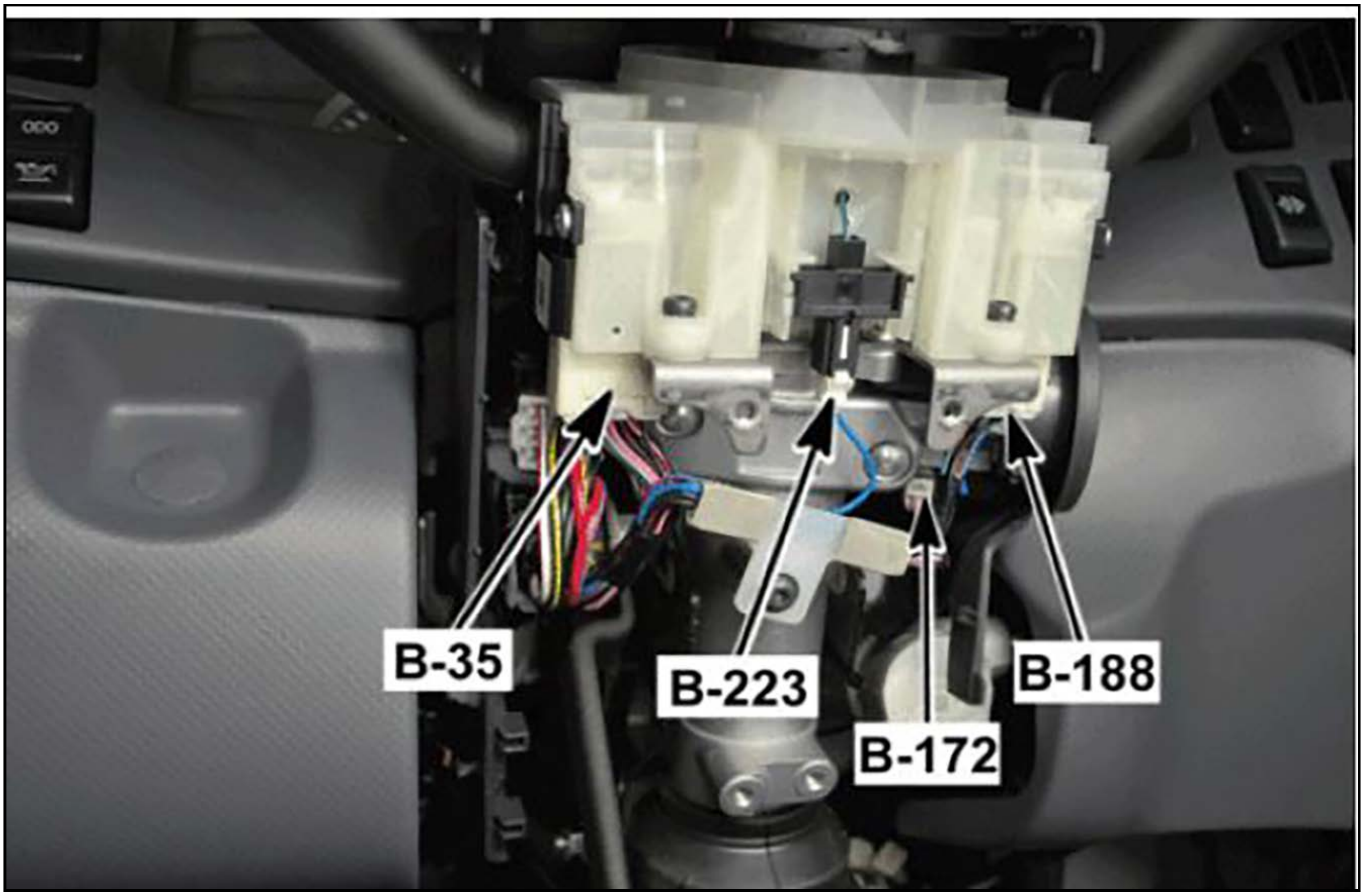
B-35 Combination Switch



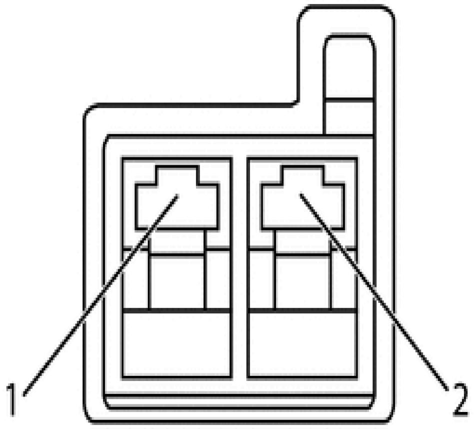
4894313

Connector Part Information		• 7383-5833 • 18-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	JX001B	Ground to B-377 Splice Pack (B-51 Ground)
2	RED/BLK	JA003B	Left Turn Signal Control
3	RED/WHT	JA002B	Right Turn Signal Control
4	GRY/BLU	IC179B	Cruise Switch, Ignition Voltage from Fuse F-20
5	PNK/BLU	IC176B	Resume/Accel Control
6	GRY	IC177B	Set/Coast Control
7–9	—	—	Not Used
10	BLK	JX008B	Ground to B-49 Junction Block (B-52 Ground)
11	GRN/WHT	QB003B	Front Cornering Light (RH) Control
12	GRN/BLK	QB002B	Front Cornering Light (LH) Control
13	RED/BLU	AA003B	X-13 Headlight Low Relay Coil Control
14	VIO/WHT	AA069B	DRL Signal
15	BLK	AX003B	Ground to B-377 Splice Pack (B-51 Ground)
16	RED/WHT	AA032B	Headlamp High Relay Control
17	—	—	Not Used
18	GRN/ORN	BA010B	X-16 Tail Lamp Relay Coil Control

In the Steering Column, Under the Steering Column Trim Panels


B-35
B-223
B-172
B-188
4895830

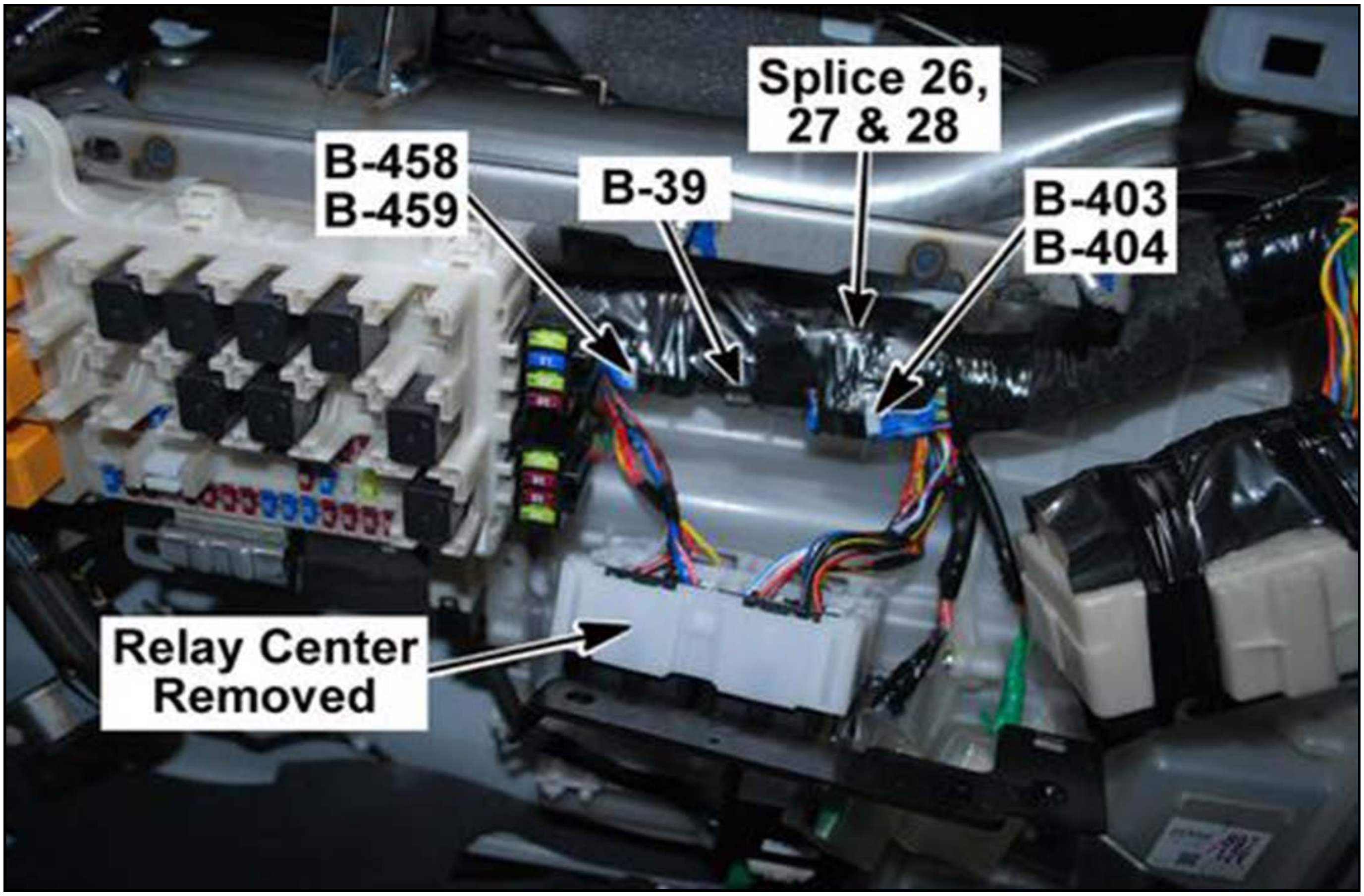
B-39 Cornering Lamp Diode 3



4894326

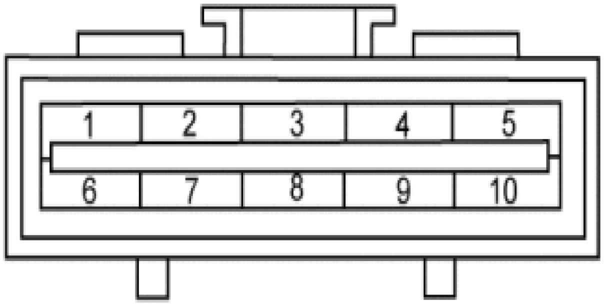
Connector Part Information	- 7323-9025-30 - 2-Way F (BLK)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	ORN/BLU	JA110B	Cornering Lamp Relay Control Coil Control (In)
2	VIO/WHT	JA109B	Cornering Lamp Relay Control Coil Control (Out)

Center of the I/P, Behind the Fuse/Relay Center (Cab)


Splice 26,
27 & 28
B-458
B-459
B-39
B-403
B-404
Relay Center
Removed

4894331

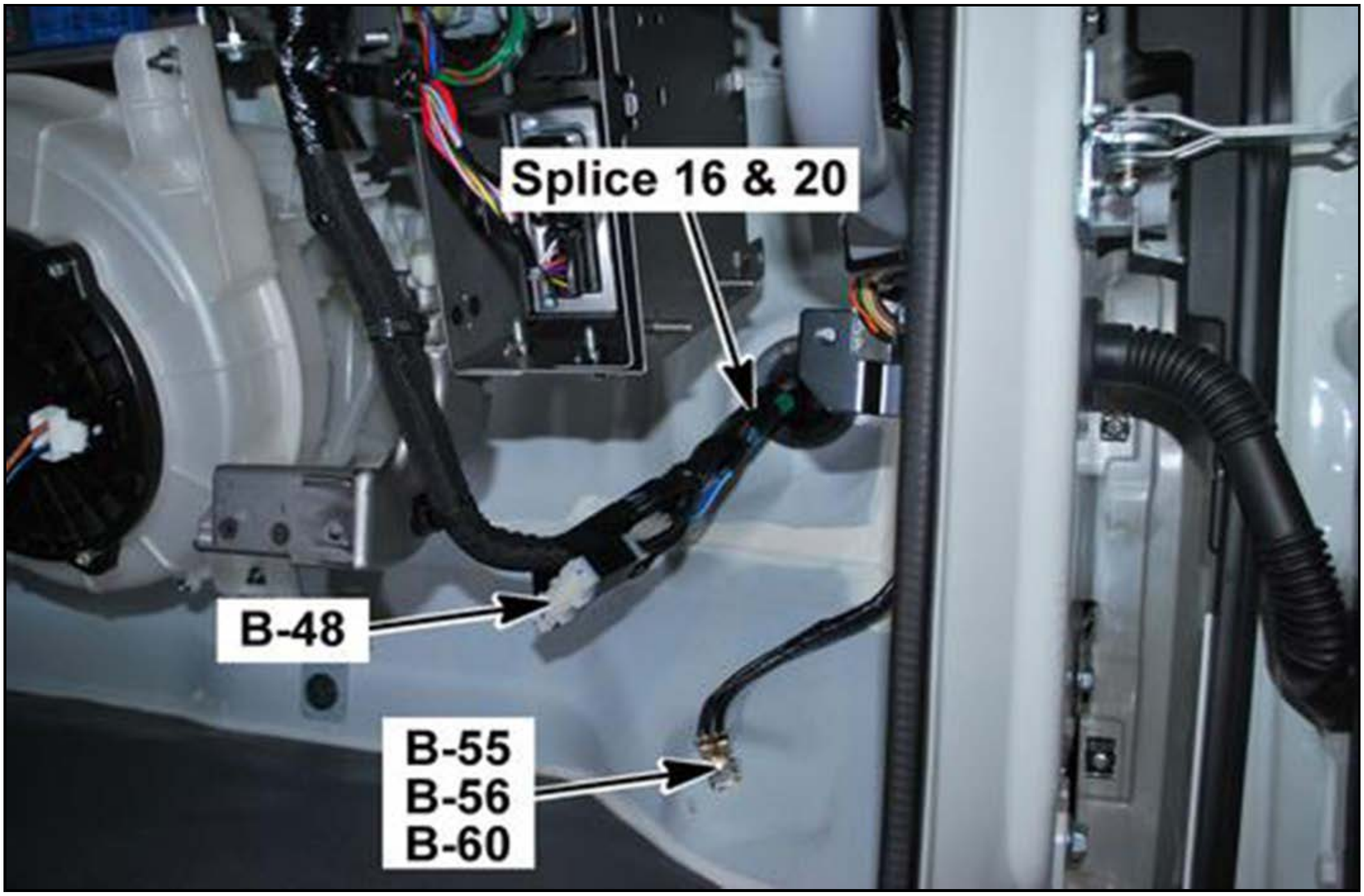
B-48 Junction Block



4894388

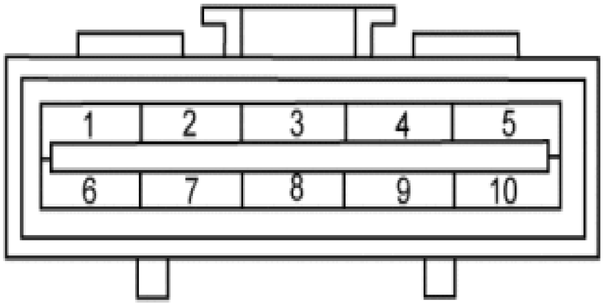
Connector Part Information		• 7323-7500 • 10-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	AX004B	Ground to DRL Module
2	BLK	WX006B	Ground to Mirror (RH) Lower Heater
3	BLK/WHT	WX008B	Ground to Mirror (RH) Upper Heater
4	BLK	ZZ014B	Ground from B-49 Junction Block
5	BLK	FX001B	Ground to Wiper Motor
6	BLK	ZZ019B	Ground from Junction Block (J/B) 2
7	BLK	QX001B	Ground to Condenser Fan
8	BLK	HX004B	Ground to Blower Motor Resistor
9	BLK	AX001B	Ground to Headlamp (RH)
10	BLK	ZZ020B	Ground from B-53

Behind the Right Side of the I/P, Next to the Right A-pillar


Splice 16 & 20
B-48
B-55
B-56
B-60

4894117

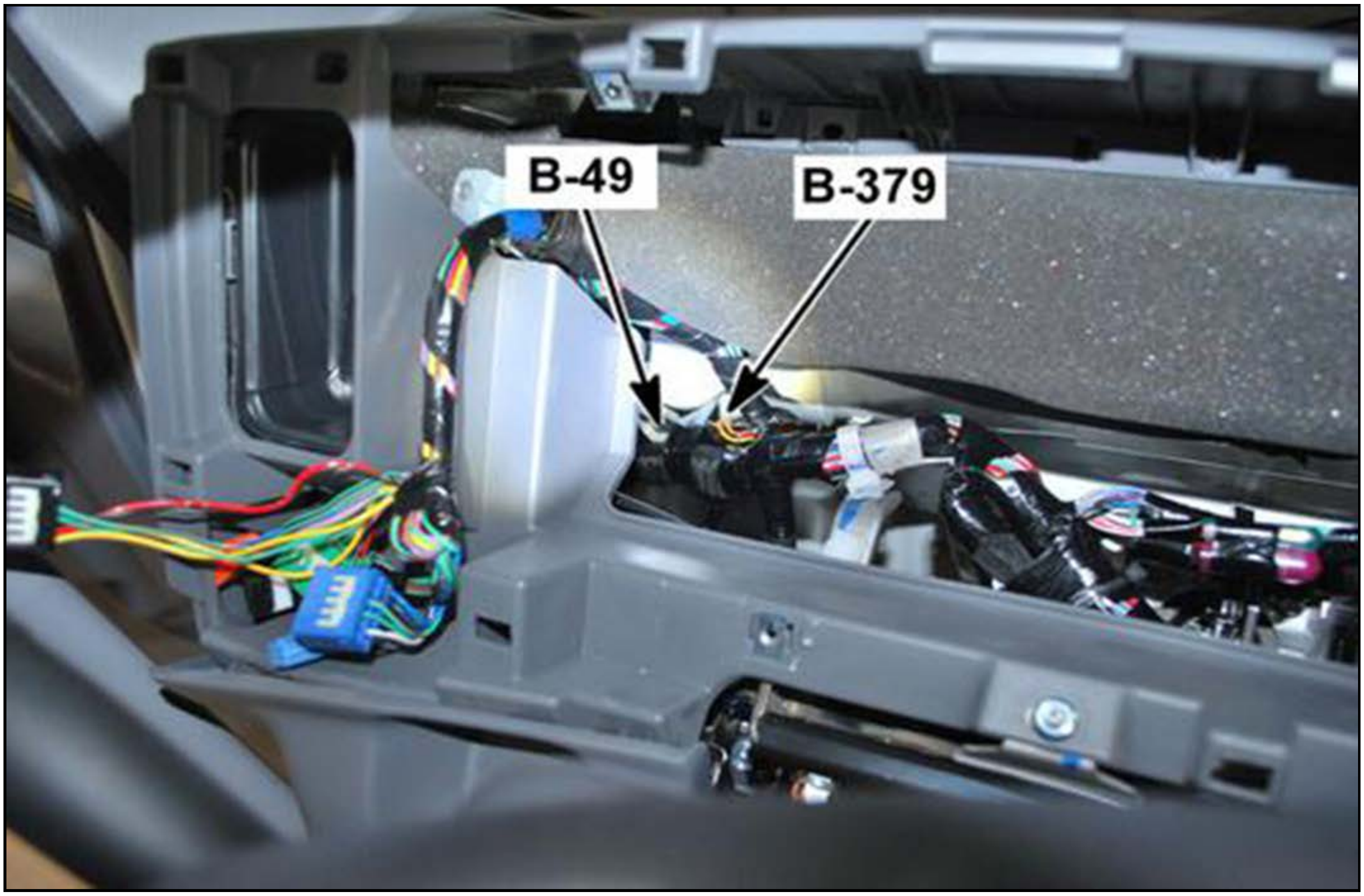
B-49 Junction Block



4894395

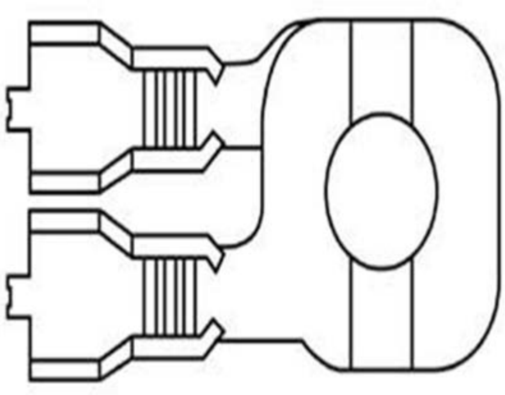
Connector Part Information		- 7323-7500 - 10-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	UX001B	Ground to Power Window Switch (LH)
2	BLK	JX008B	Ground to Combination Switch (Cornering Lamps)
3	—	—	Not Used
4	BLK	ZZ018B	Ground to Dimmer Switch
5	BLK	ZZ021B	Ground to B-52
6	BLK	AX002B	Ground to Headlamp (LH)
7	BLK/WHT	WX107B	Ground to Mirror (LH) Lower Heater
8	BLK	WX005B	Ground to Mirror (LH) Upper Heater
9	BLK	WX003B	Ground to Power Window Switch
10	BLK	ZZ014B	Ground from B-49 Junction Block

Under the Left Side of the Instrument Panel Cluster, (IPC is Removed for Photo)



4894413

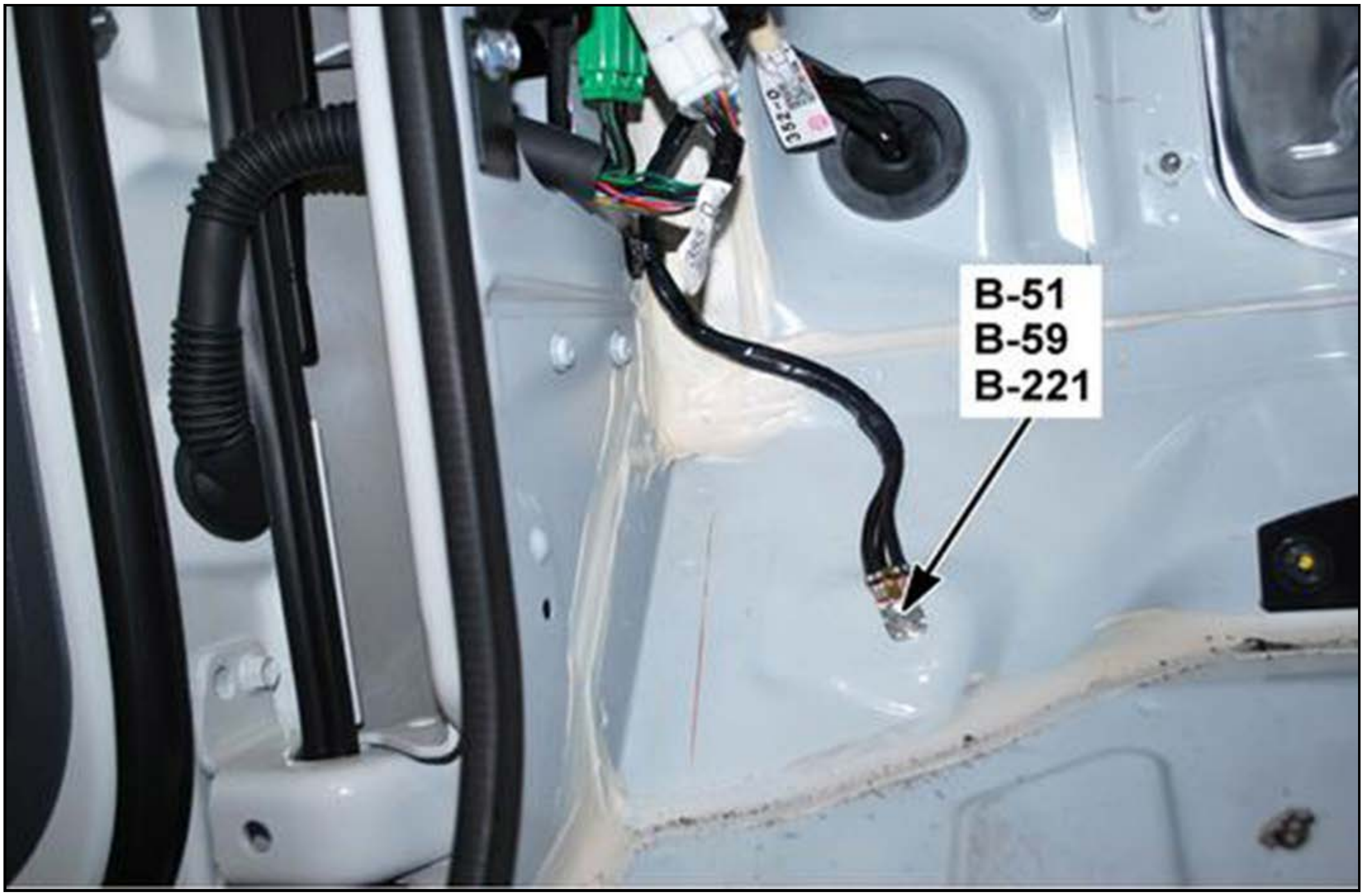
B-51 Ground Connector End View



4894435

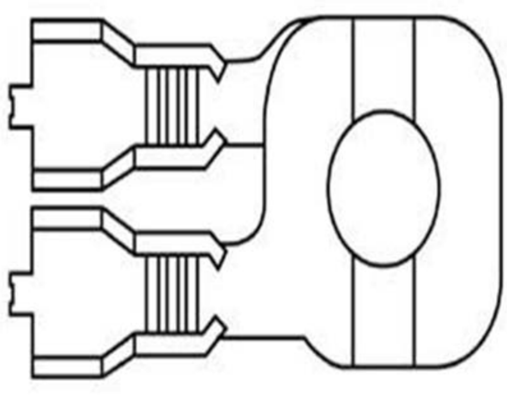
Connector Part Information	- 7009-1864-02 - 2-Way Eyelet		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	ZZ003B	Ground for B-602 Splice Pack
1	BLK	ZZ053B	Ground for B-379 Splice Pack

Left Inner Corner of the Cab, Across from the Lower Door Hinge



4894458

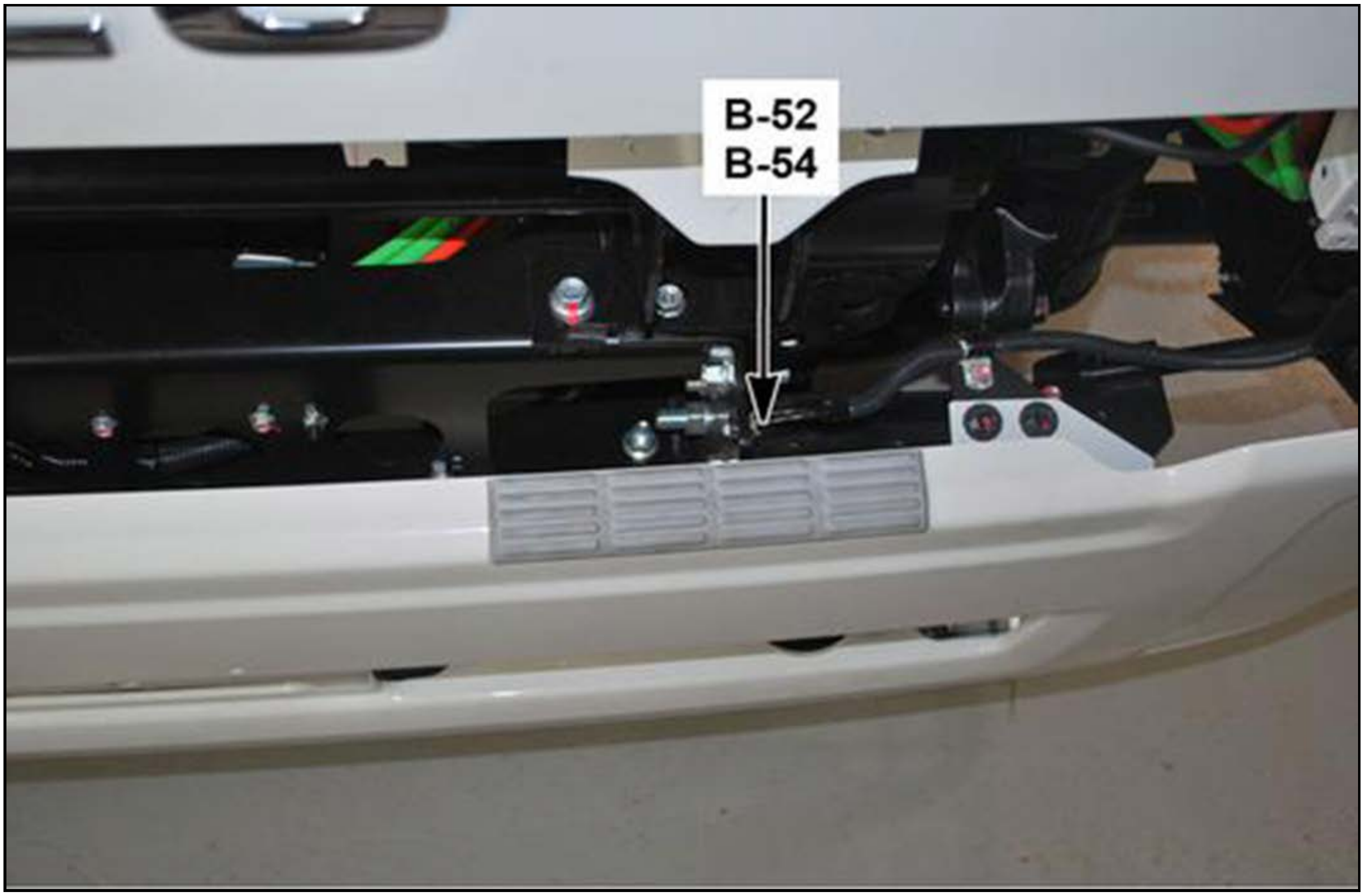
B-52 Gound



4894435

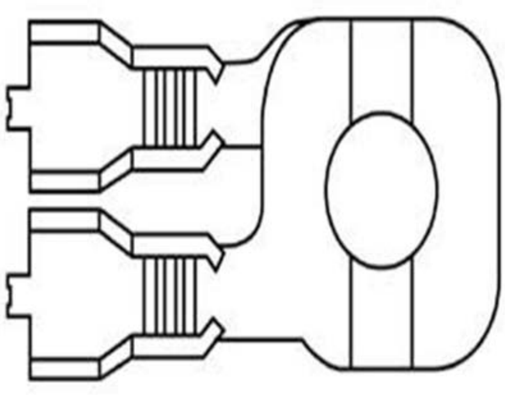
Connector Part Information		• 7009-9229-02 • 1-Way Eyelet	
Pin	Wire Color	Circuit Number	Function
—	BLK	ZZ021B	Ground for B-49 Junction Block

Left Front Corner of the Frame, Behind the Front Bumper



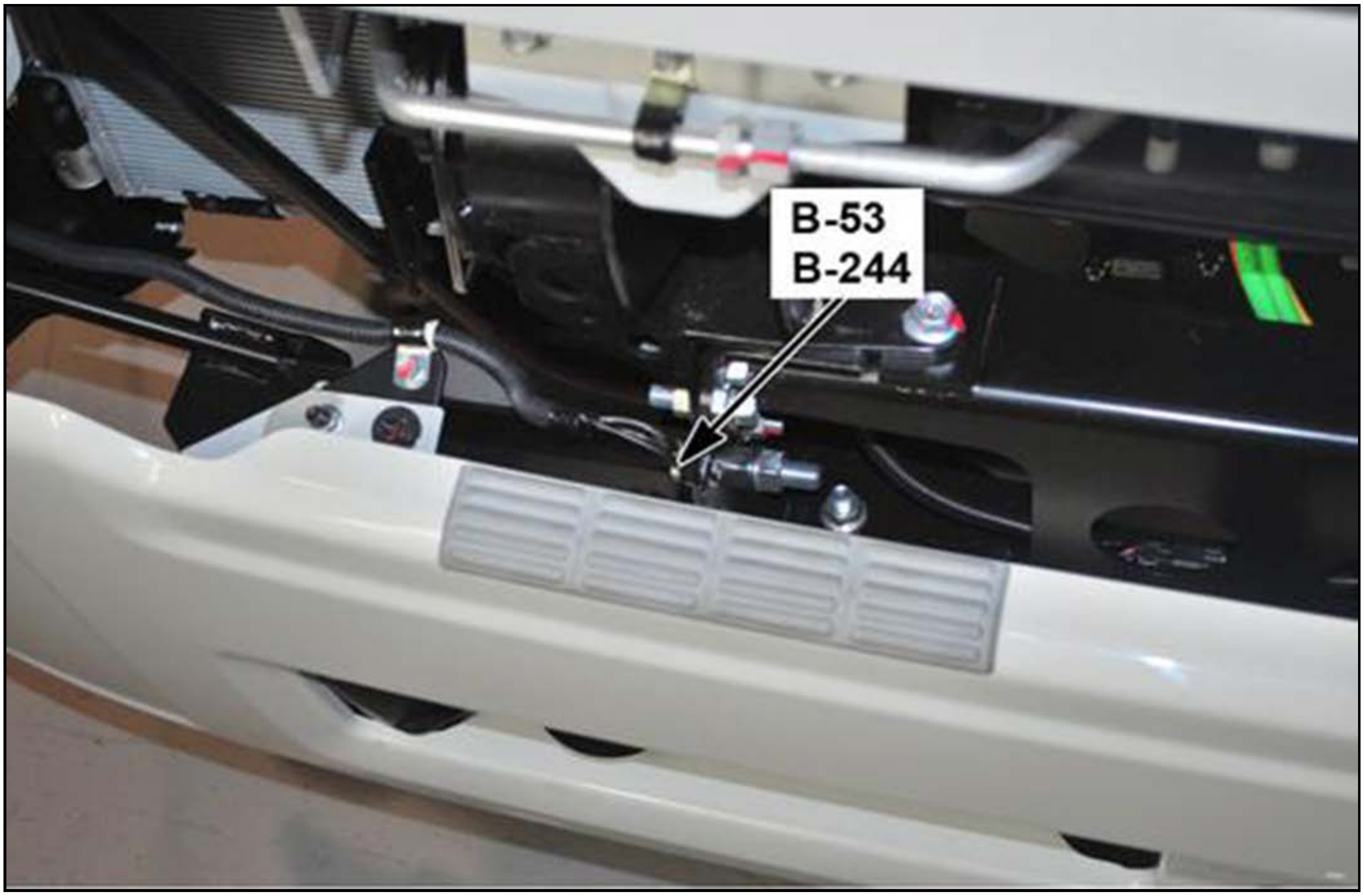
4894475

B-53 Ground



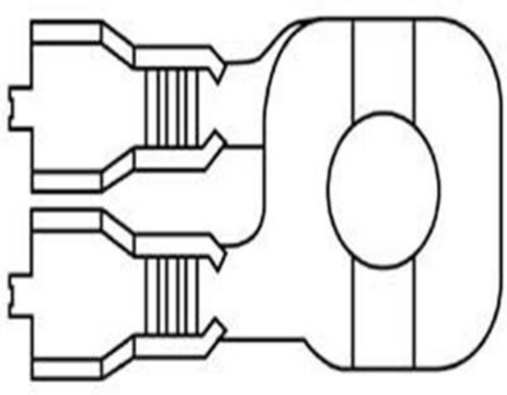
Connector Part Information		• 7009-9229-02 • 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	ZZ020B	Ground to B-48 Junction Block
—	BLK	ZZ029B	J/B 2 (B-142 pin 16)

Right Front Corner of the Frame, Behind the Front Bumper



4894485

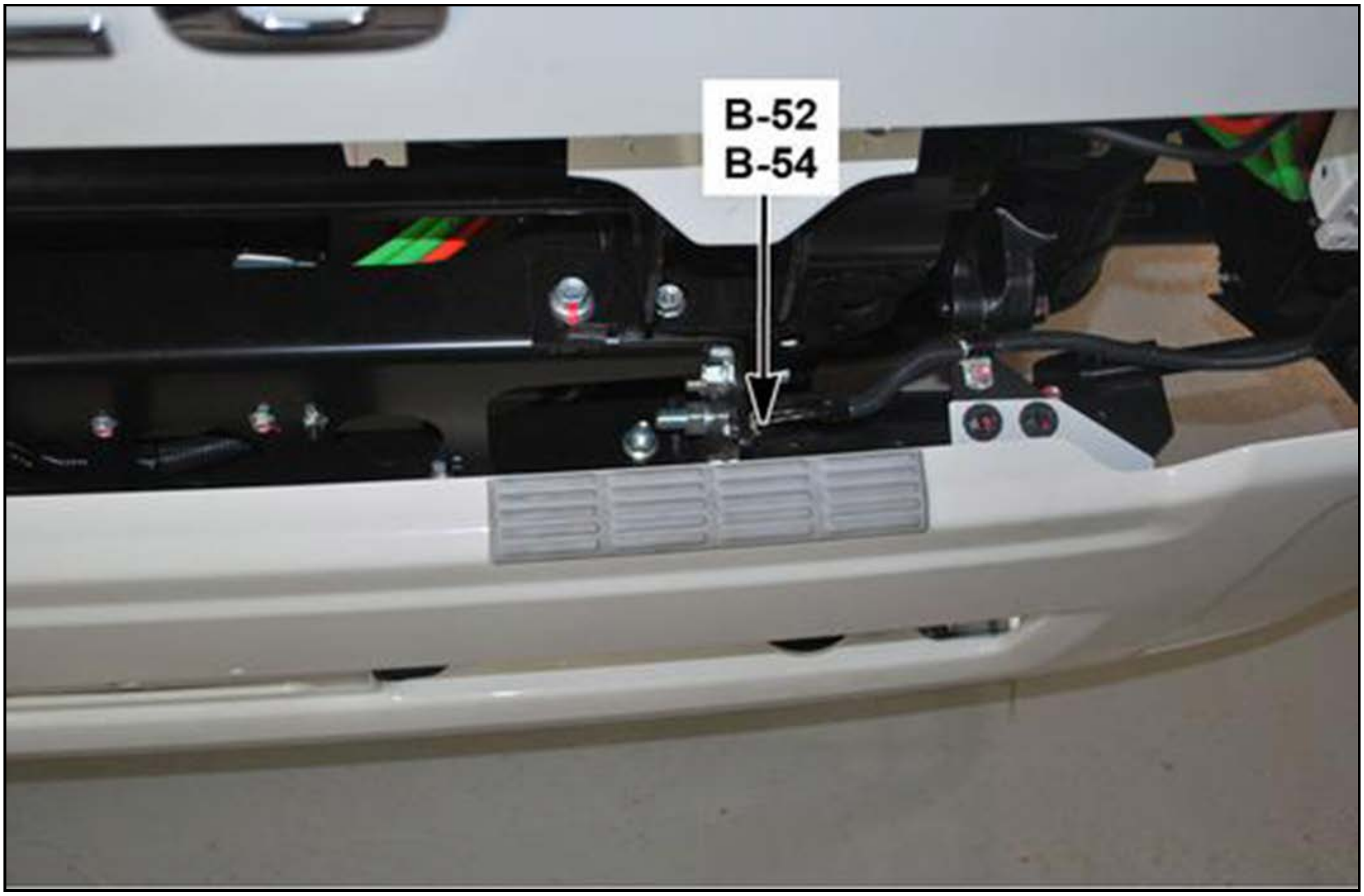
B-54 Ground



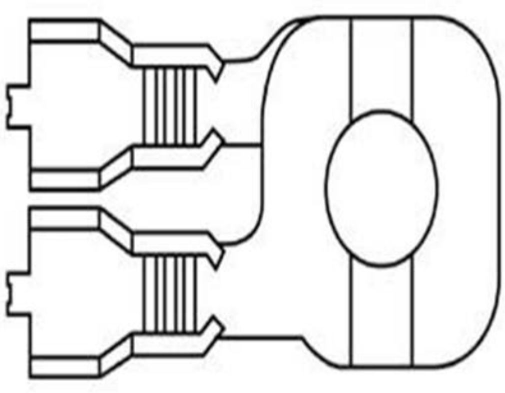
4894435

Connector Part Information		• 7009-9229-02 • 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	ZZ008B	Ground to B-59

Left Front Corner of the Frame, Behind the Front Bumper



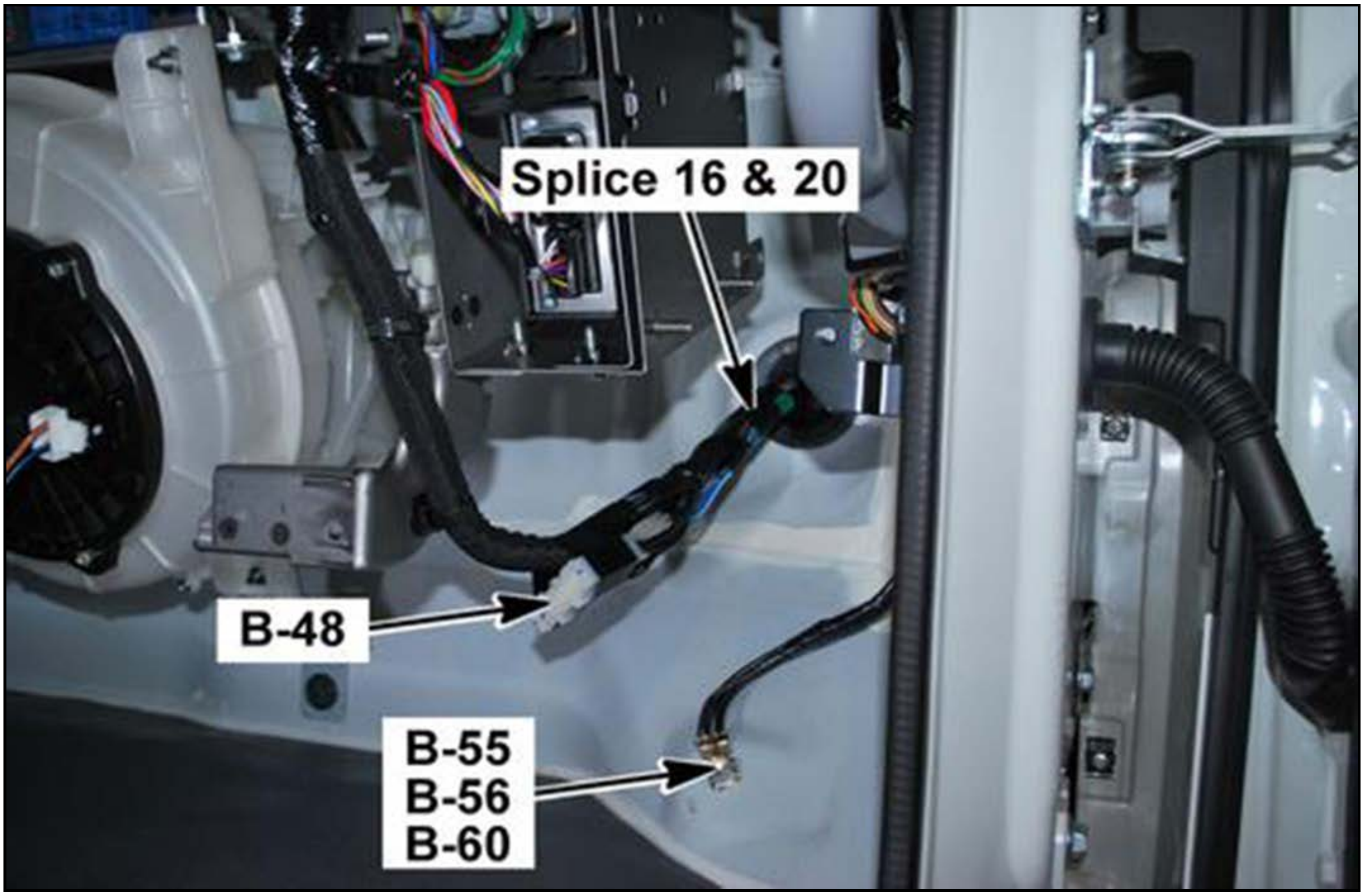
B-55 Ground



4894435

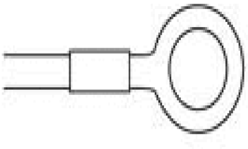
Connector Part Information	- 7009-1333 - 1-Way Eyelet		
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	ZZ043B	Ground to Splice 18

Lower Right Corner of the Cab, Across From the Lower Door Hinge


Splice 16 & 20
B-48
B-55
B-56
B-60

4894504

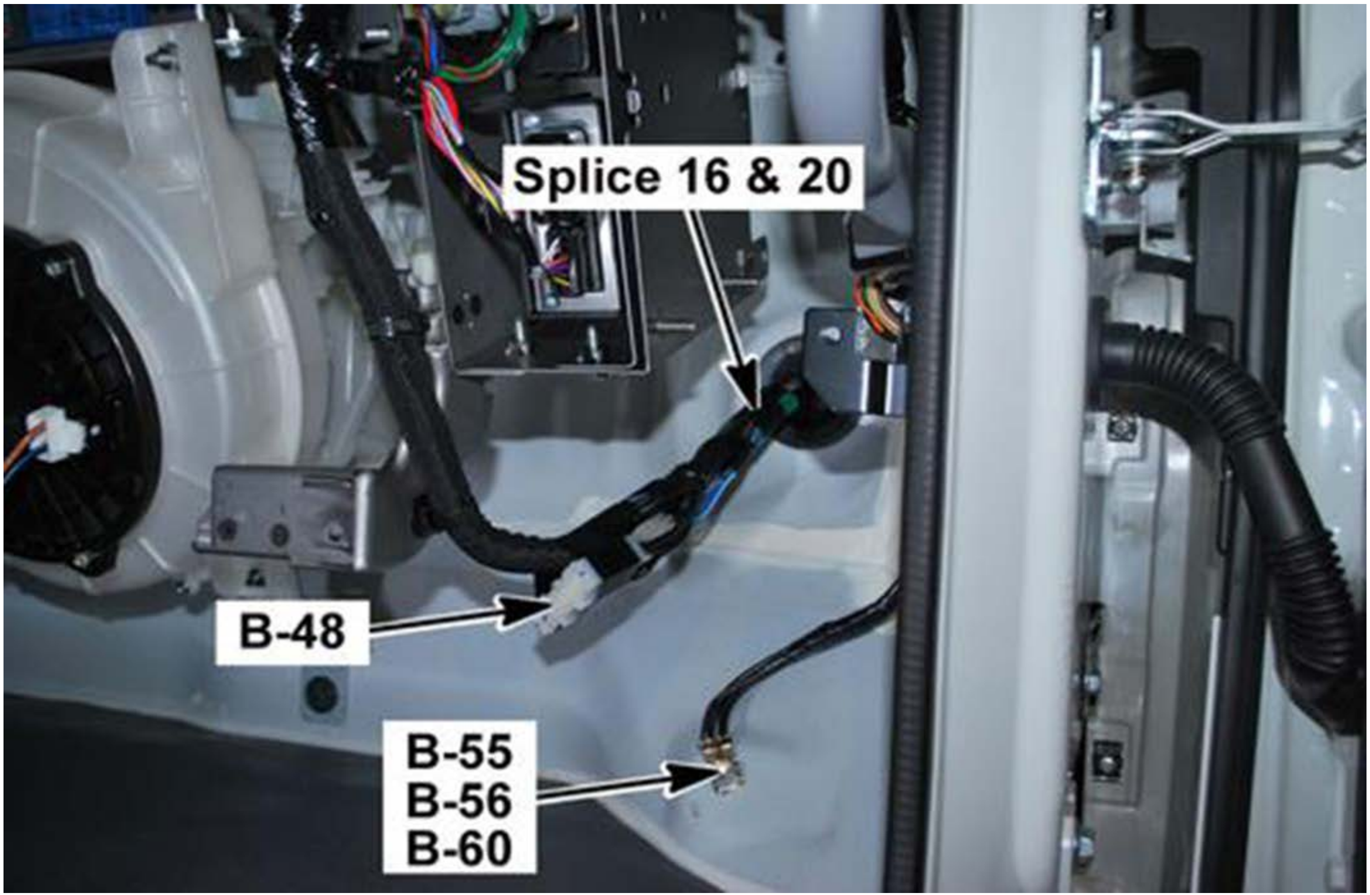
B-56 Ground



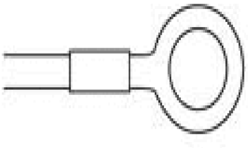
4894500

Connector Part Information		- 7009-1865-02 - 1-Way Eyelet	
Pin	Wire Color	Circuit Number	Function
—	BLK	ZZ012B	Ground to B-244

Lower Right Corner of the Cab, Across From the Lower Door Hinge

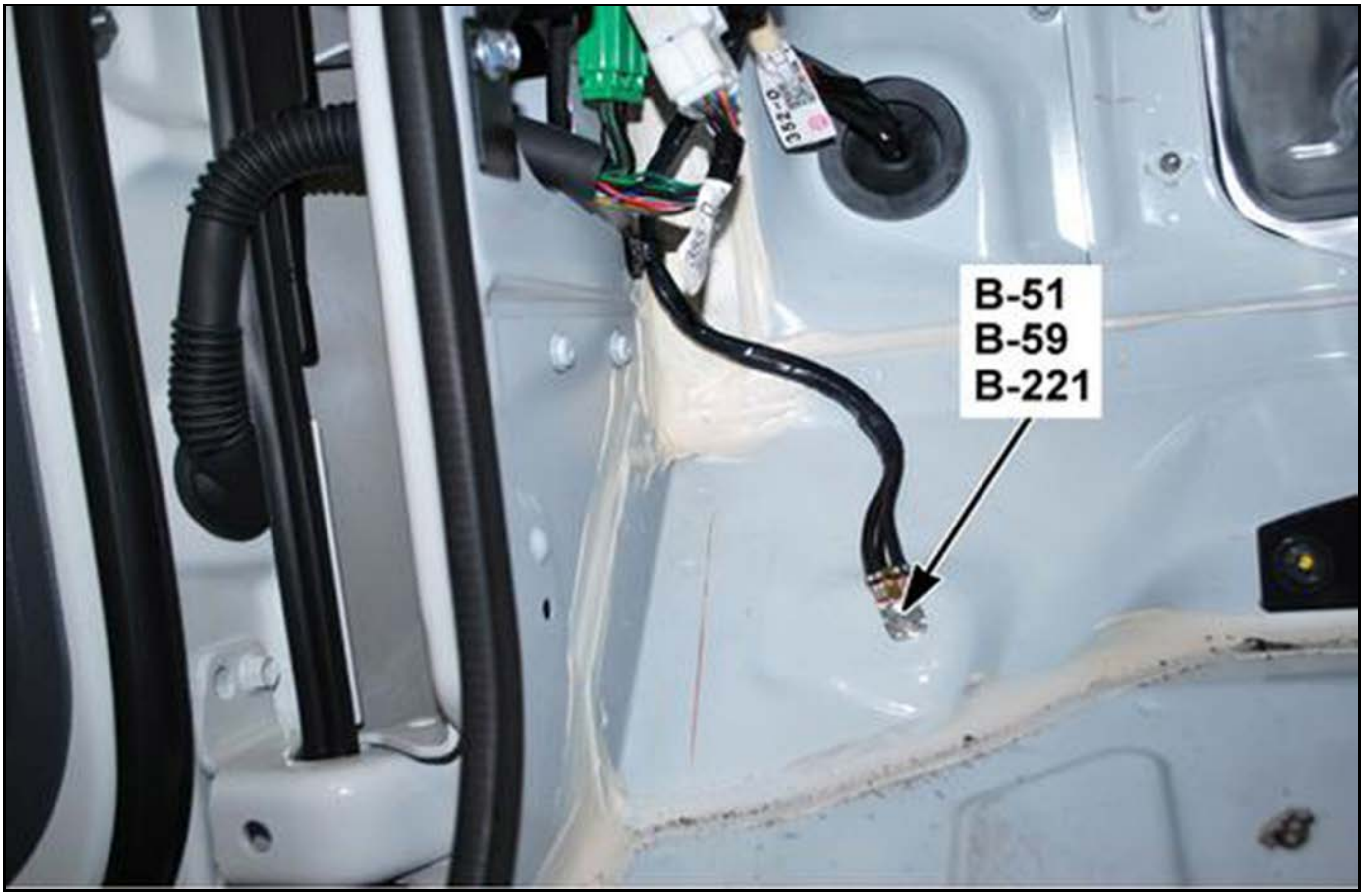

Splice 16 & 20
B-48
B-55
B-56
B-60
4894504

B-59 Ground



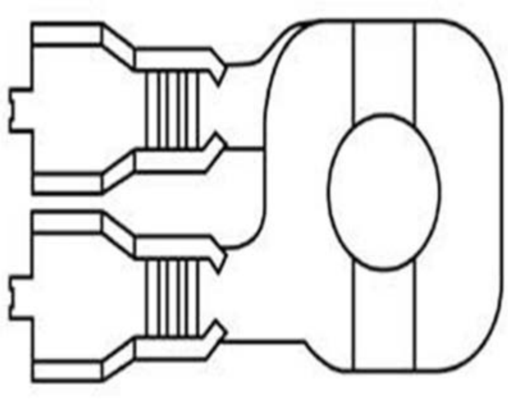
Connector Part Information		• 7009-1865-02 • 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	ZZ008B	Ground to B-54

Left Inner Corner of the Cab, Across from the Lower Door Hinge



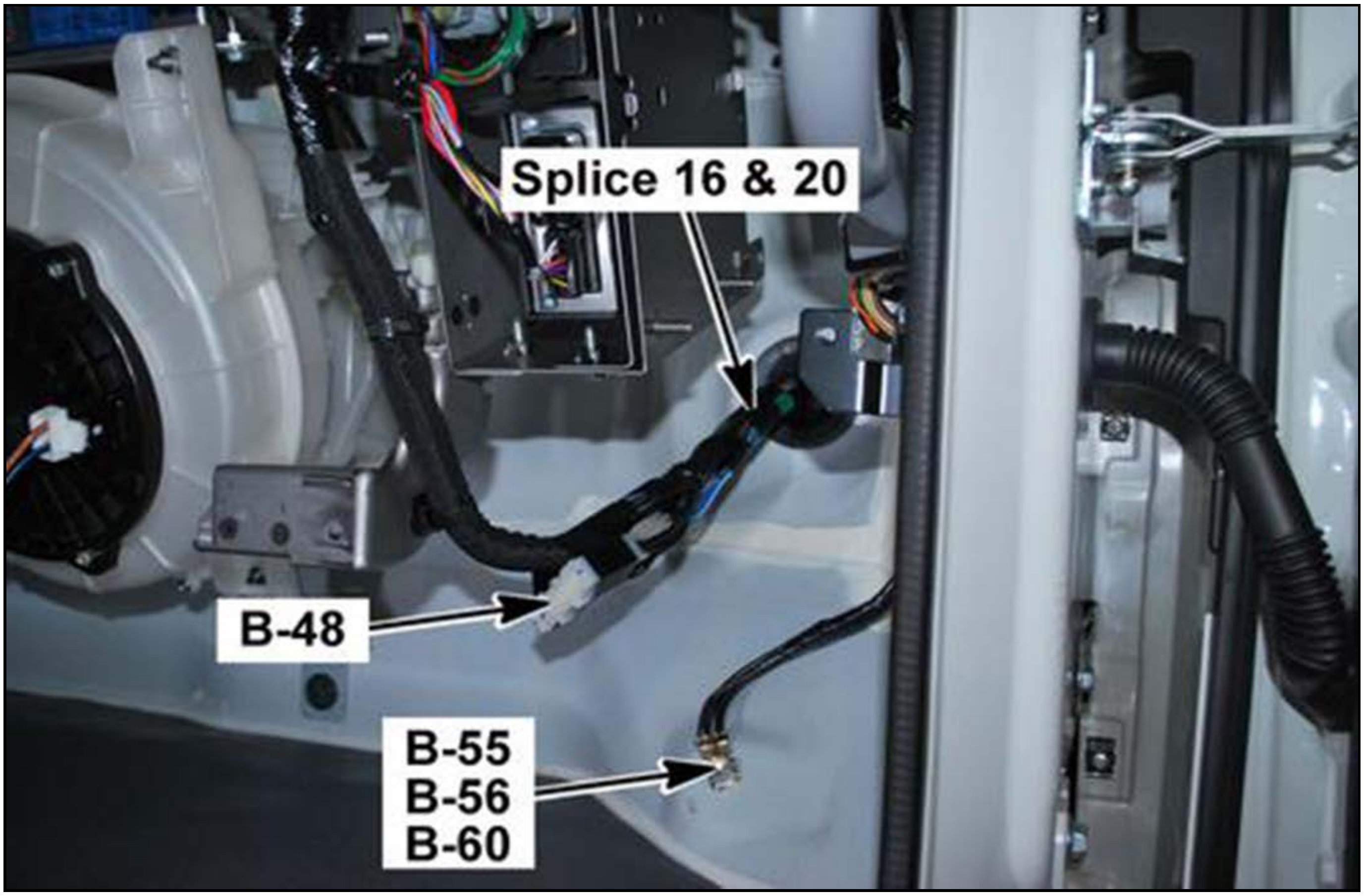
4894524

B-60 Ground



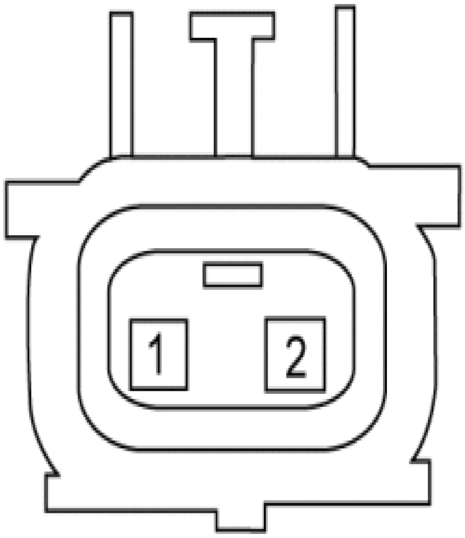
Connector Part Information		• 7009-1864-02 • 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	ZZ040B	Ground for B-379 Splice Pack

Lower Right Corner of the Cab, Across From the Lower Door Hinge


Splice 16 & 20
B-48
B-55
B-56
B-60

4894504

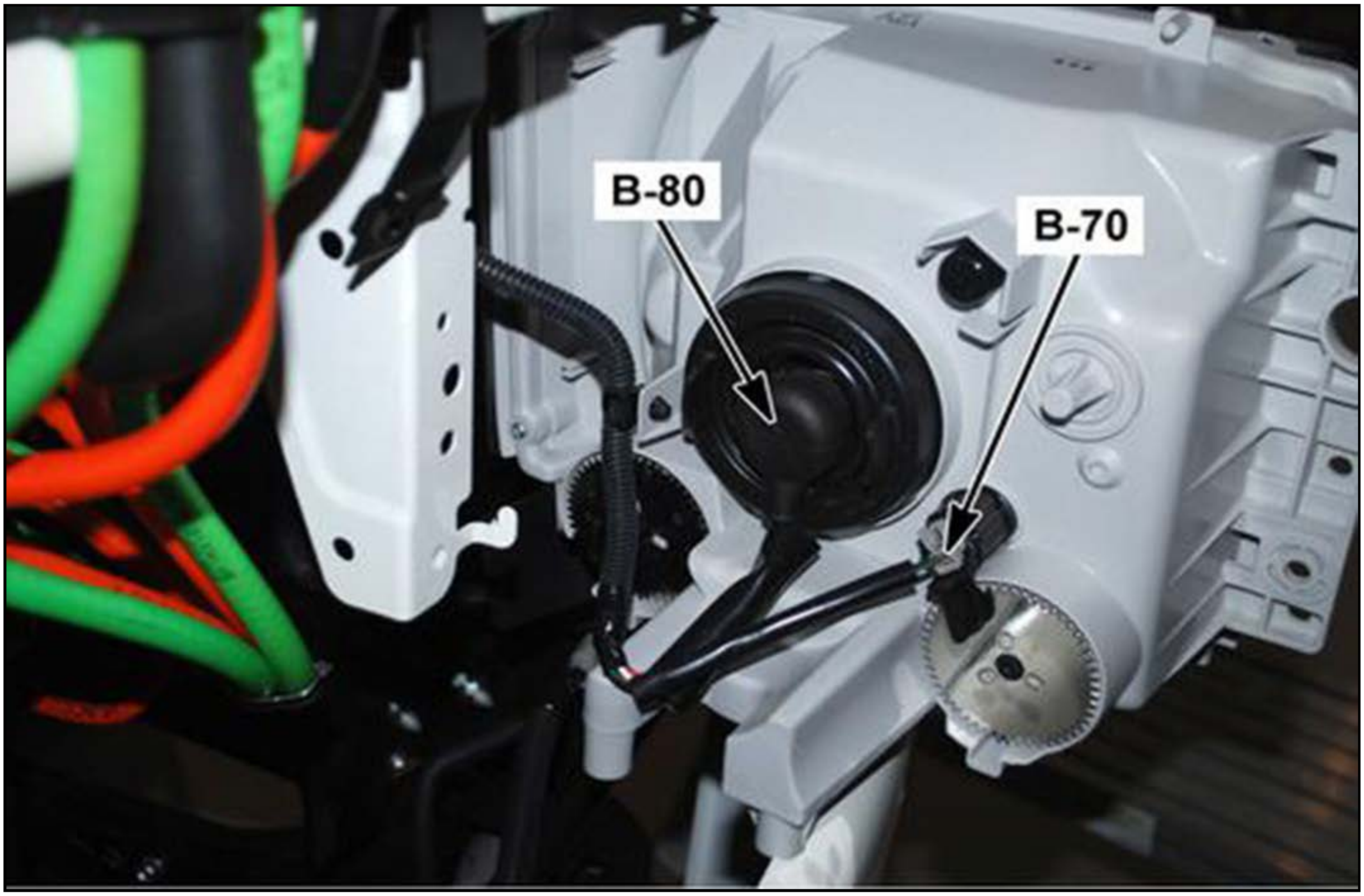
B-70 Front Park Lamp (LH)



4894811

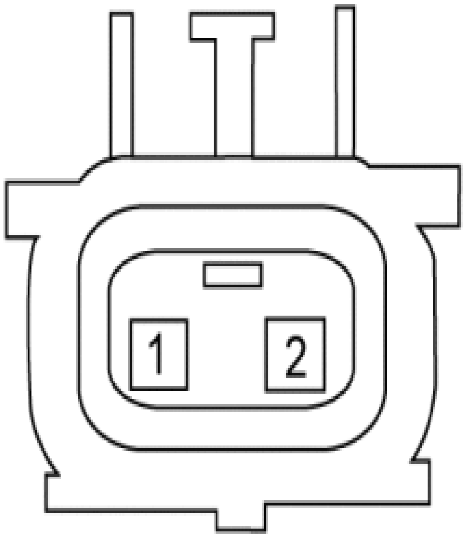
Connector Part Information	- 7383-7770-40 - 2-Way F (GRY)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RN/RED	BA016B	Fuse F-27 Voltage (Headlamp Switch ON)
2	BLK	BX022B	Ground to B-601 Splice Pack (B-51 Ground)

B-70 Left Front Corner of the Vehicle, Behind the Headlamp Lens



4894813

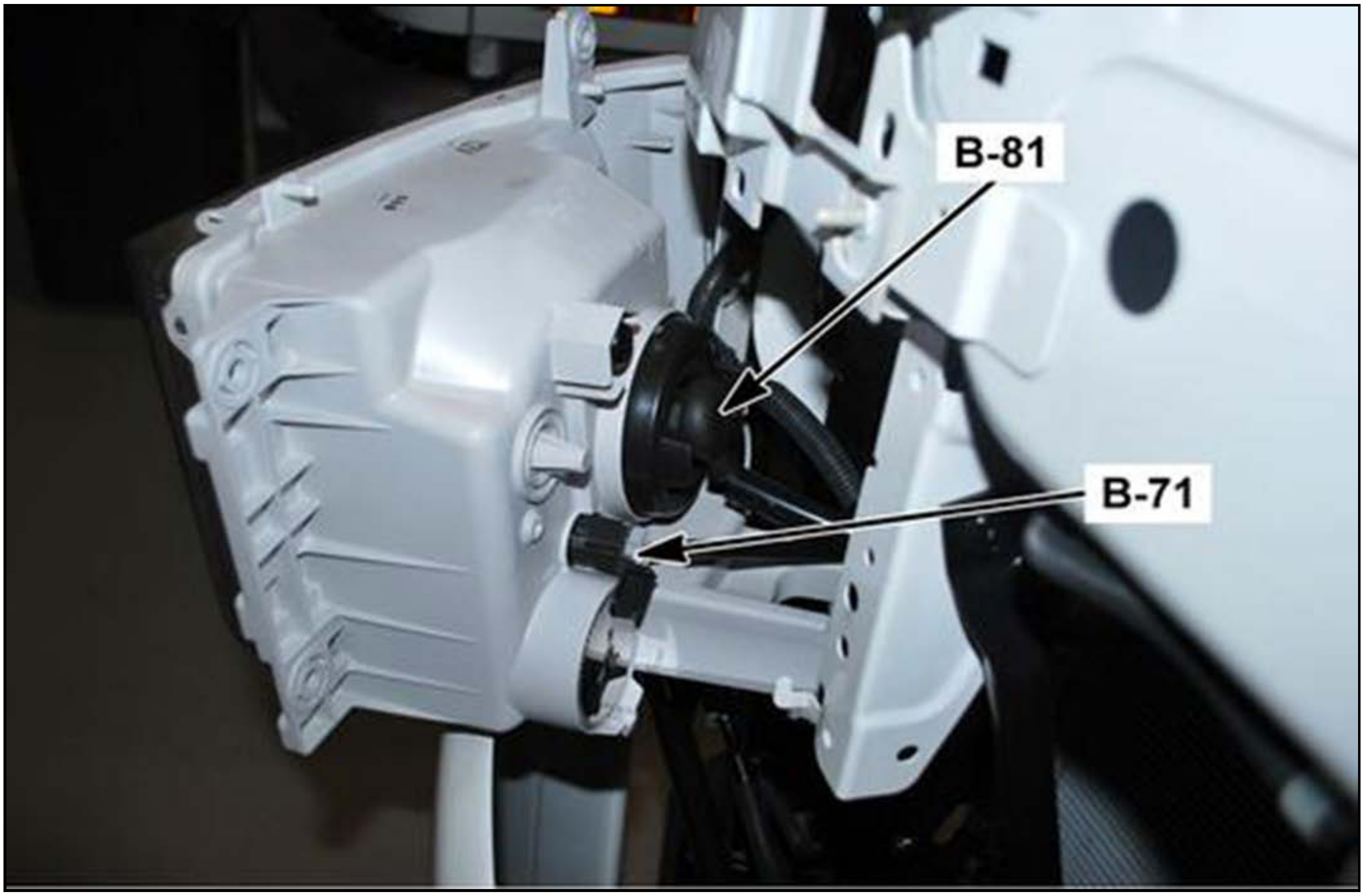
B-71 Front Park Lamp (RH)



4894811

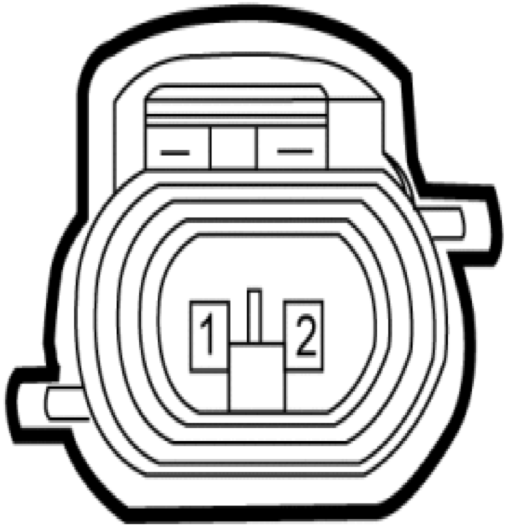
Connector Part Information		- 7383-7770-40 - 2-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/RED	BA015B	Fuse F-27 Voltage (Headlamp Switch ON)
2	BLK	BX023B	Ground to J/B 2 (B-144 pin 6) (B-53 Ground)

B-71 Behind the Right Headlamps Lens



4894819

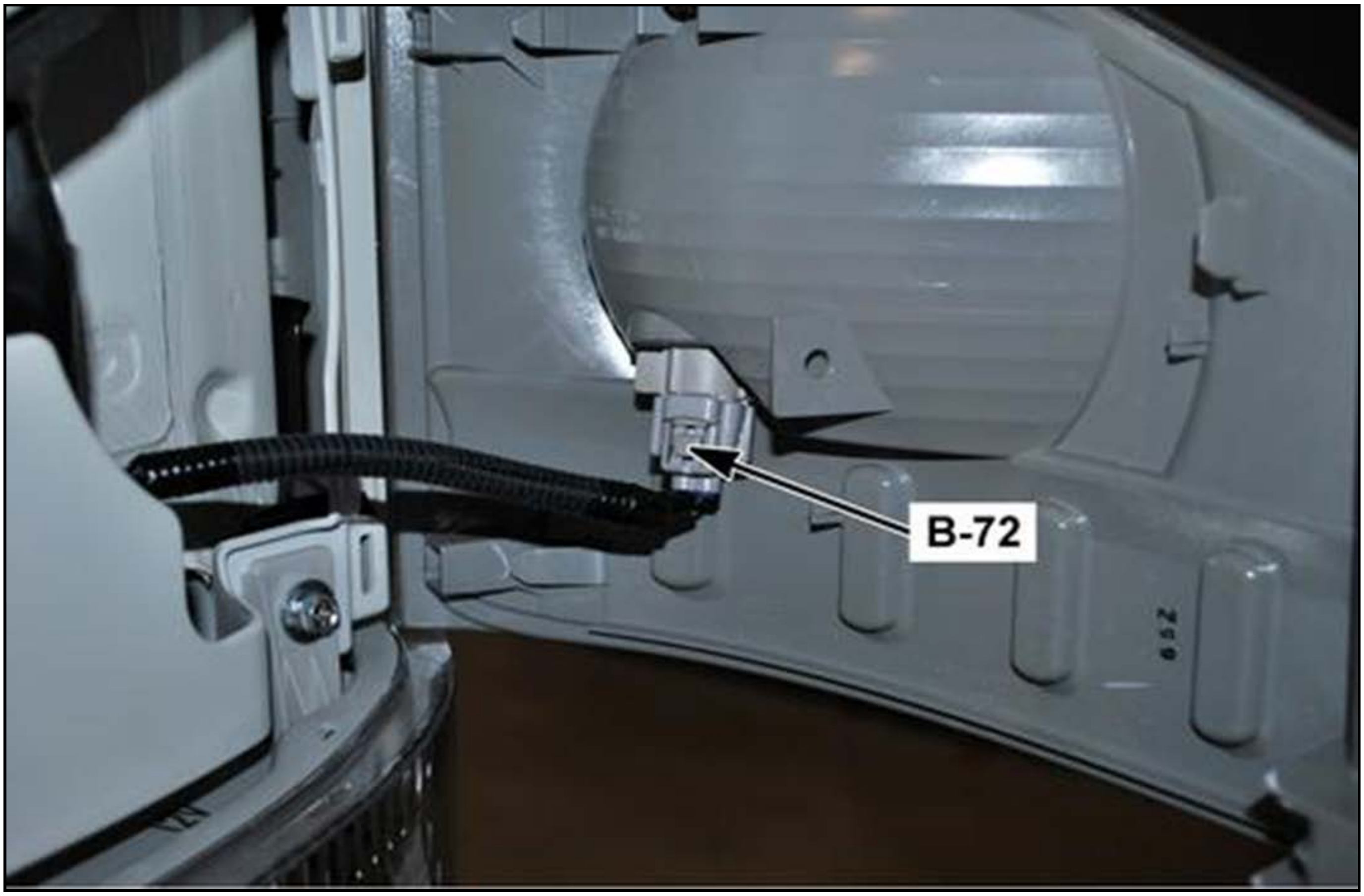
B-72 Front Turn Signal Lamp (LH)



4894823

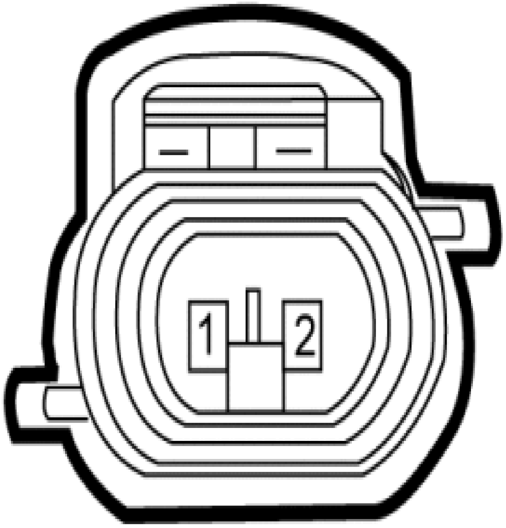
Connector Part Information	- 6189-0175 - 2-Way F (GRY)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/BLK	JA012B	Turn Signal Supply Voltage from J/B 1 (B-134 pin 11)
2	BLK	JX005B	Ground to B-601 Splice Pack (B-51 Ground)

B-72 Left Front Corner of the Vehicle, Behind the Turn Signal Lamp Lens



4894828

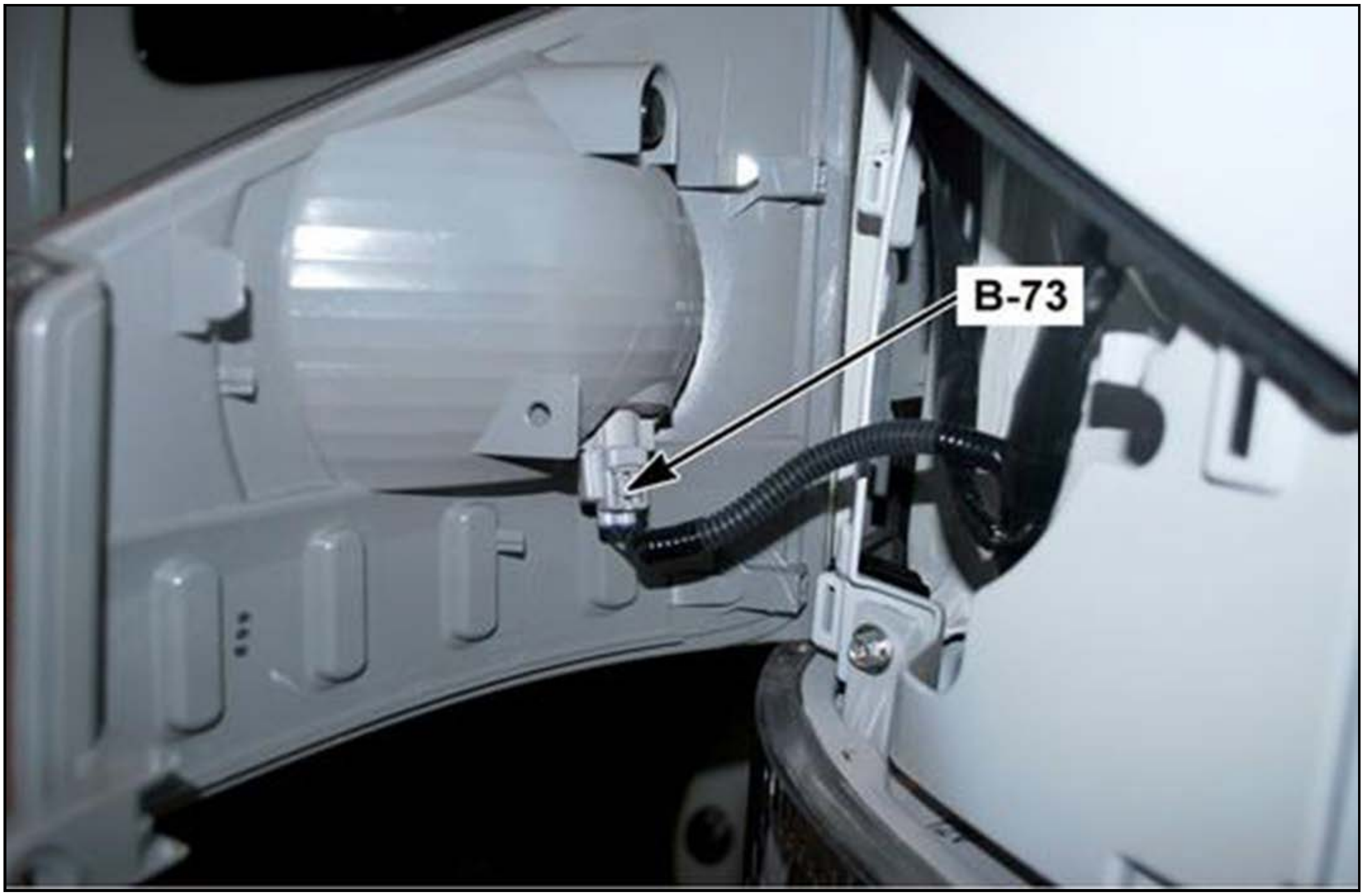
B-73 Front Turn Signal Lamp (RH)



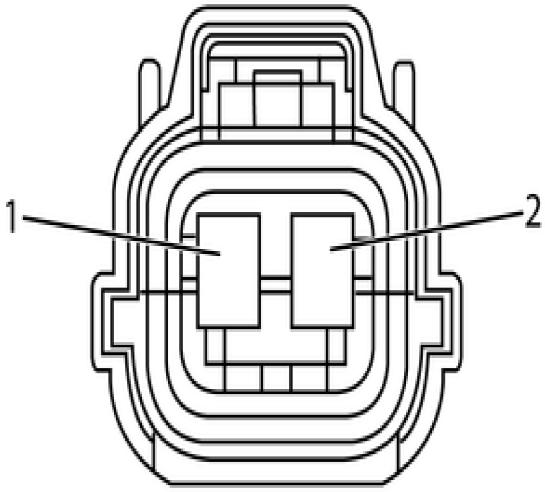
4894823

Connector Part Information	- 6189-0175 - 2-Way F (GRY)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/WHT	JA013B	Turn Signal Supply Voltage from J/B 1 (B-138 pin 7)
2	BLK	JX006B	Ground to J/B 2 (B-144 pin 15) (B-53 Ground)

Behind the Right Turn Signal Lamp Lens



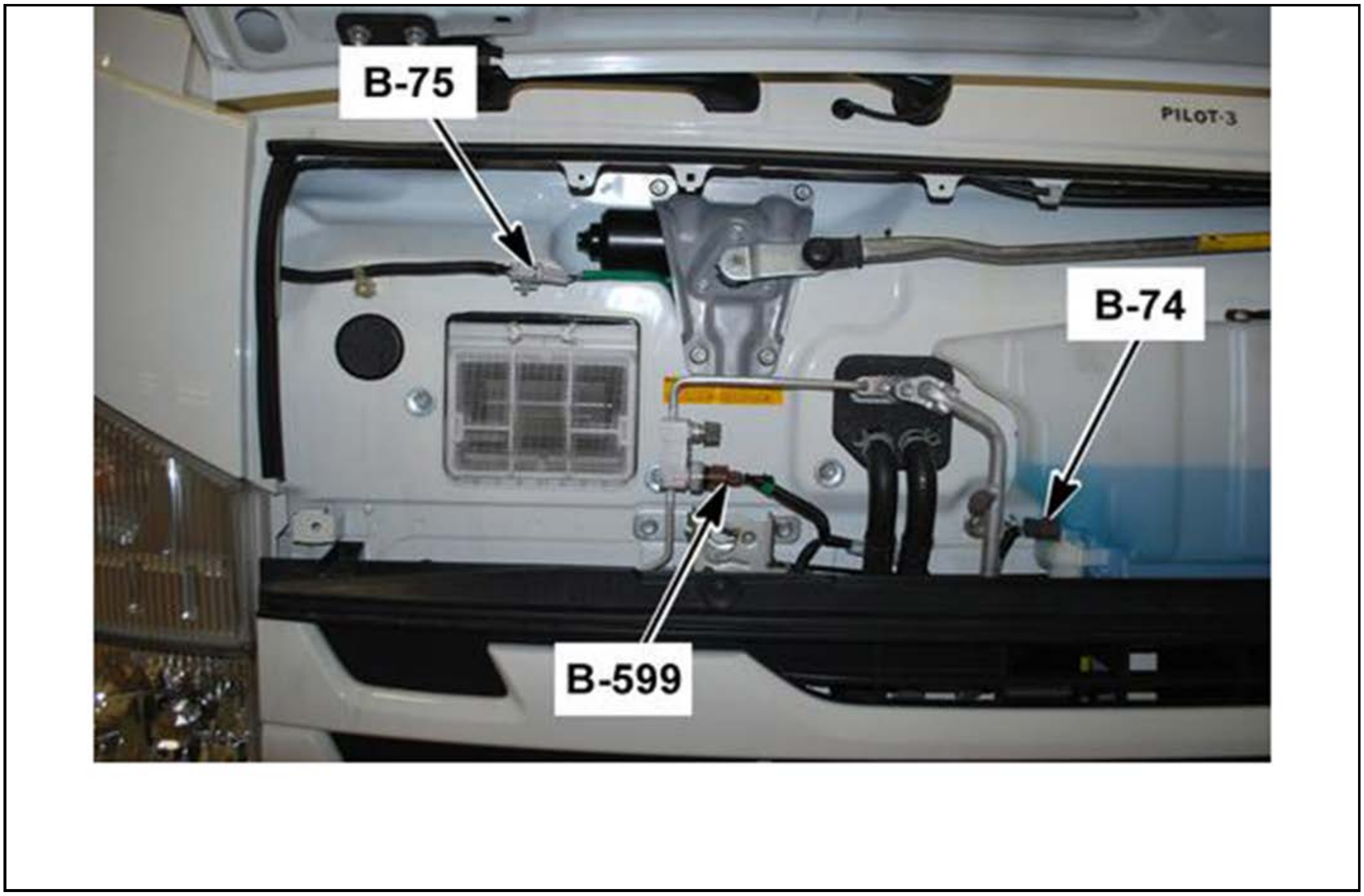
B-74 Washer Motor



4894843

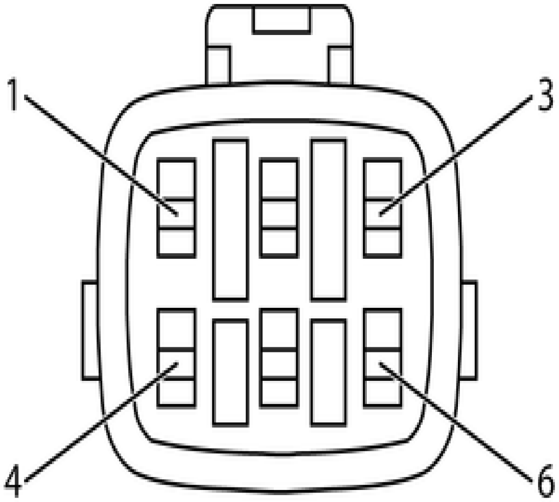
Connector Part Information		• 6098-0135 • 2-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU/BLK	FA010B	Control Side to Wiper/Exhaust Brake Switch
2	BLU/WHT	FA005B	Ignition Voltage from Fuse F-20

Center Front of Vehicle, Under Hood


B-75
PILOT-3
B-74
B-599

4894851

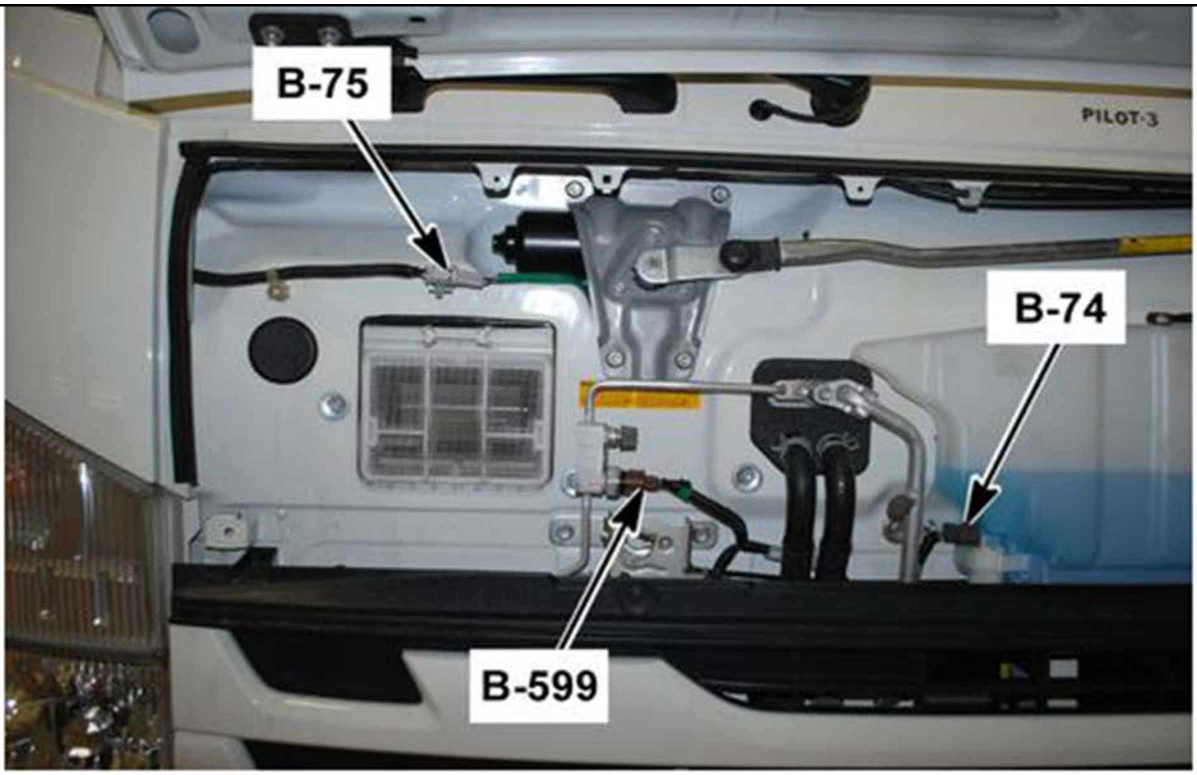
B-75 Wiper Motor



4894864

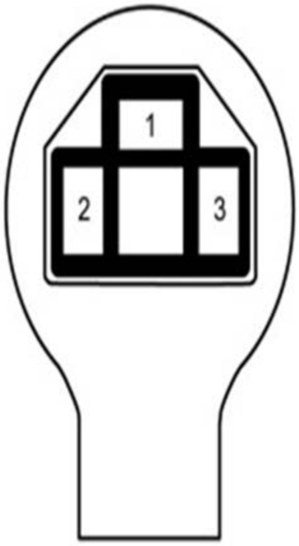
Connector Part Information		- 6189-0368 - 6-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BRN/BLK	FA002B	Control Side to Wiper/Exhaust Brake Switch
2	BRN/WHT	FA001B	Low Speed Control Voltage
3	BLU/WHT	FA004B	Ignition Voltage from Fuse F-8, Fuse/Relay Center (Cab)
4	—	—	Not Used
5	BLU/ORN	FA003B	Wiper Park Signal
6	BLK	FX001B	Ground to B-48 Junction Block (B-53 Ground)

Right Front of Vehicle, Under Hood


B-75
PILOT-3
B-74
B-599

4894851

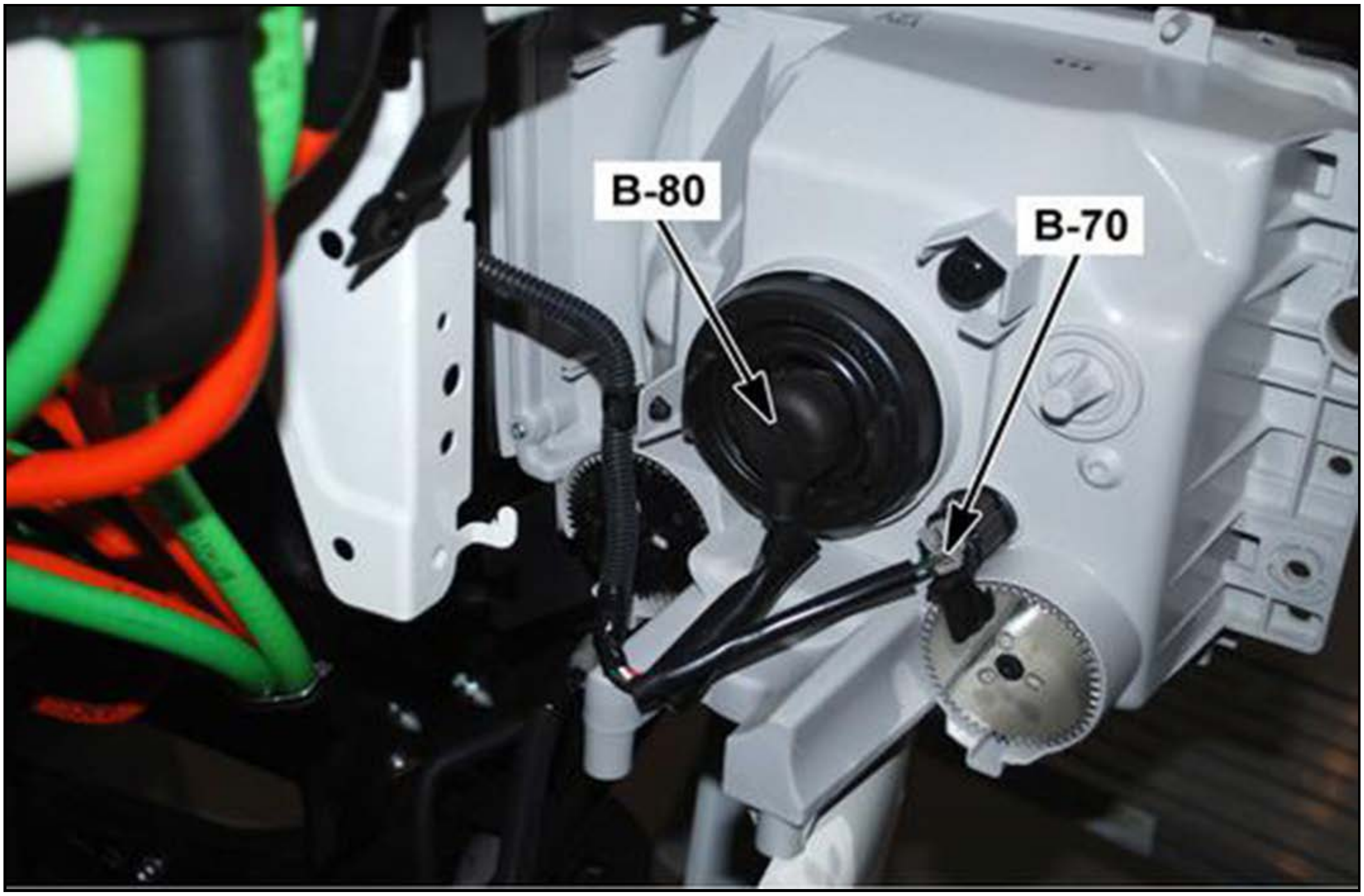
B-80 Headlamp (LH)



4894878

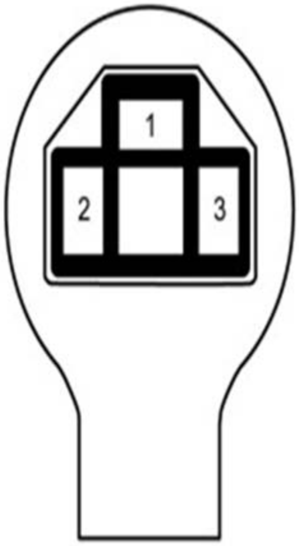
Connector Part Information		• 7334-1044 • 3-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT/BLU	AA064B	Fuse F-9 Voltage (Headlamp Switch ON) from Fuse/ Relay Center (Cab) for Low Beam
2	RED	AA009B	Fuse F-14 Voltage (Headlamp Switch ON) from Fuse/ Relay Center (Cab) for High Beam
3	BLK	AX002B	Ground to B-49 Junction Block (B-52 and B-53 Ground)

Left Front Corner of the Vehicle, Behind the Headlamps Lens



4894901

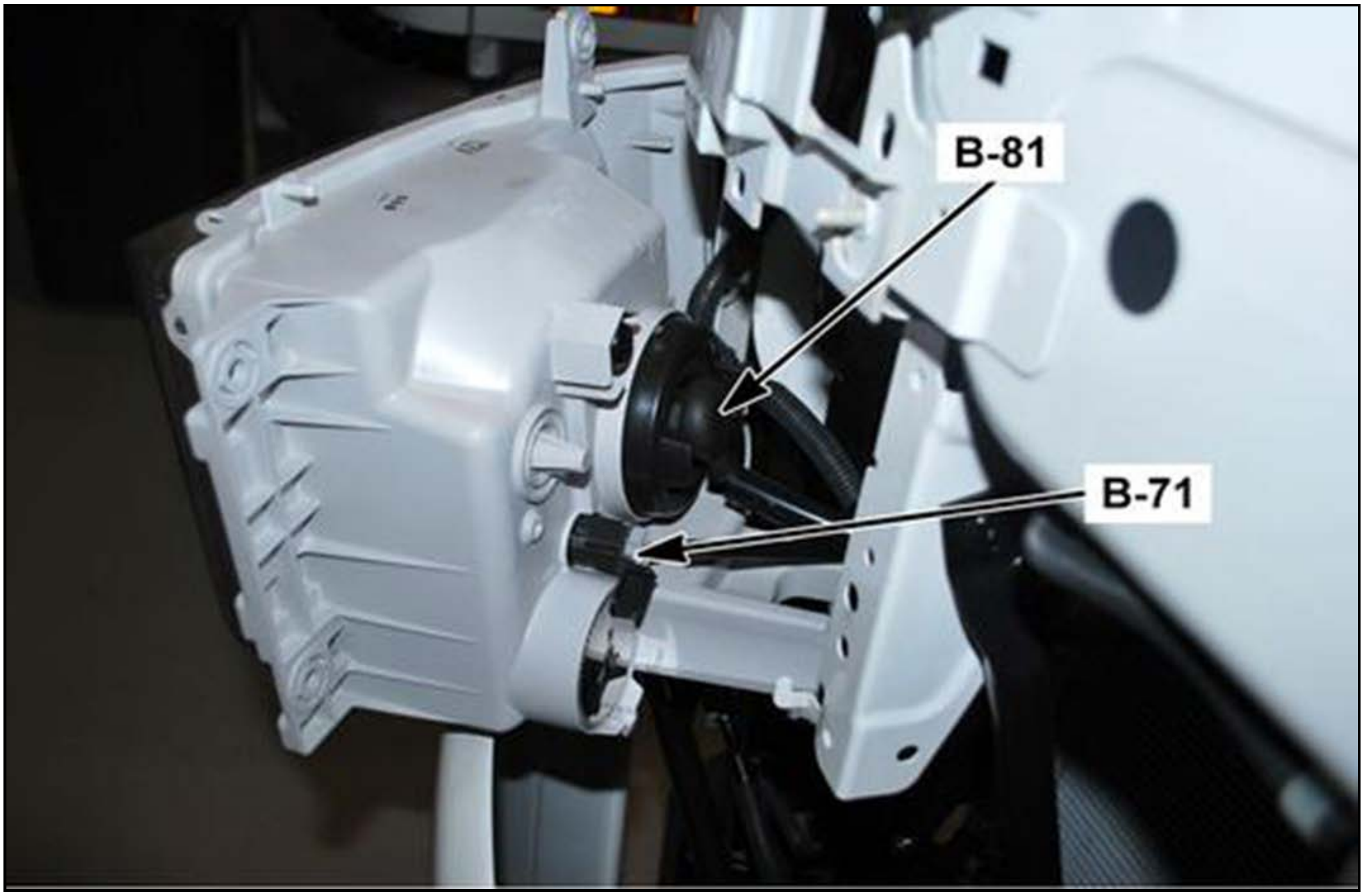
B-81 Headlamp (RH)



4894878

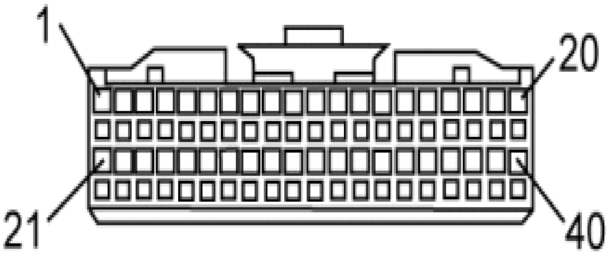
Connector Part Information		• 7334-1044 • 3-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT/RED	AA065B	Fuse F-11 Voltage (Headlamp Switch ON) from Fuse/ Relay Center (Cab) for Low Beam
2	RED	AA011B	Fuse F-15 Voltage (Headlamp Switch ON) from Fuse/ Relay Center (Cab) for High Beam
3	BLK	AX001B	Ground to B-48 Junction Block (B-52 and B-53 Grounds)

Behind the Right Headlamp Lens



4894950

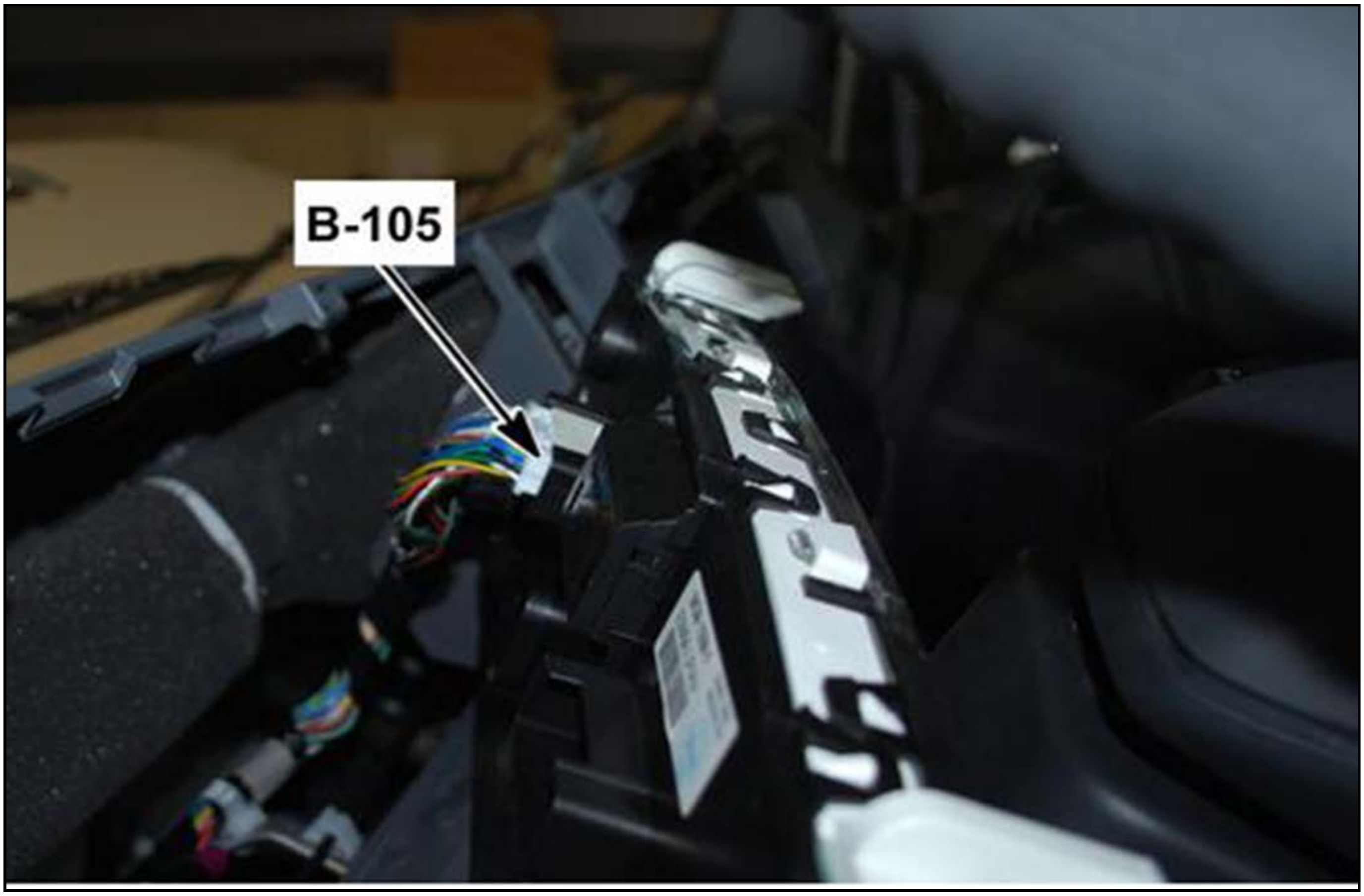
B-105 Instrument Panel Cluster (IPC)



4894955

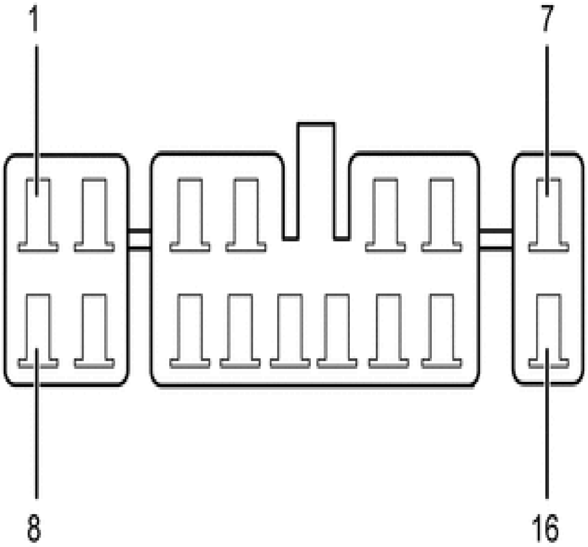
Connector Part Information		- 1674312-1 - 40-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK/BLU	MA005B	Battery Voltage from Fuse F-22
2	GRN/YEL	MA001B	Ignition Voltage from Fuse F-21
3	BLU	MA053B	Miles Check Signal from Miles/Oil Level Check Switch
4	BLK	MX116B	Ground to B-601 Splice Pack (B-51 Ground)
5	BLK	MX003B	Ground to J/B 2 (B-141 pin 8) (B-53 Ground)
6	LT GRN/RED	BA018B	Fuse F-28 Voltage (Headlight Switch ON), Dimming Control
7	LT GRN/BLK	MA036B	Dimming Control to Dimming Control Switch
8	LT GRN/WHT	MA019B	Fuel Level Gauge Control
9	BLU/WHT	TF007B	CAN 1 High (J1939)
10	BLU	TF008B	CAN 1 Low (J1939)
11	—	—	Not Used
12	BLK/ORN	MA012B	Diagnostic Switch Signal
13	WHT/BLU	PA028B	Charge Indicator (Red) Control
14	—	—	Not Used
15	WHT/BLK	MA004B	Brake Indicator Control
16–17	—	—	Not Used
18	WHT/BLU	MA085B	Voltage to Primary and Secondary Air Pressure Gauges
19	WHT/GRN	MA083B	Primary Air Pressure Gauge Signal
20	VIO/RED	MA084B	Secondary Air Pressure Gauge Signal
21	WHT	MA086B	Low Reference for Primary and Secondary Air Pressure Gauges
22	YEL/BLK	IC010B	Malfunction Indicator Lamp (MIL) Control
23	BRN/WHT	MA009B	Fuel Sedimenter (Water Separator)
24	ORN/BLU	IC008B	Glow Plug Indicator Control
25	GRN/ORN	OA059B	Check Trans Indicator (Amber) Control
26	GRY	OA056B	Trans Fluid Temperature Indicator (Red) Control
27	—	—	Not Used
28	BLK/ORN	OA057B	Range Inhibitor Signal
29	RED	AA001B	High Beam Indicator Supply Voltage
30	GRN/WHT	JA007B	Right Turn Signal Indicator Control
31	GRN/BLK	JA006B	Left Turn Signal Indicator Control
32	—	—	Not Used
33	YEL/GRN	AA036B	DRL Indicator Control (Green)
34	BLU/YEL	MA015B	Air Filter Switch Signal
35	—	—	Not Used
36	WHT/GRN	MA010B	Seat Belt Indicator
37	BLU/YEL	MA002B	Oil Pressure Indicator Control from Engine Oil Pressure Switch
38	GRN/WHT	MA051B	Oil Level Switch
39	WHT	MA056B	Oil Level Indicator Control from Miles/Oil Level Check Switch
40	—	—	Not Used

B-105



4894961

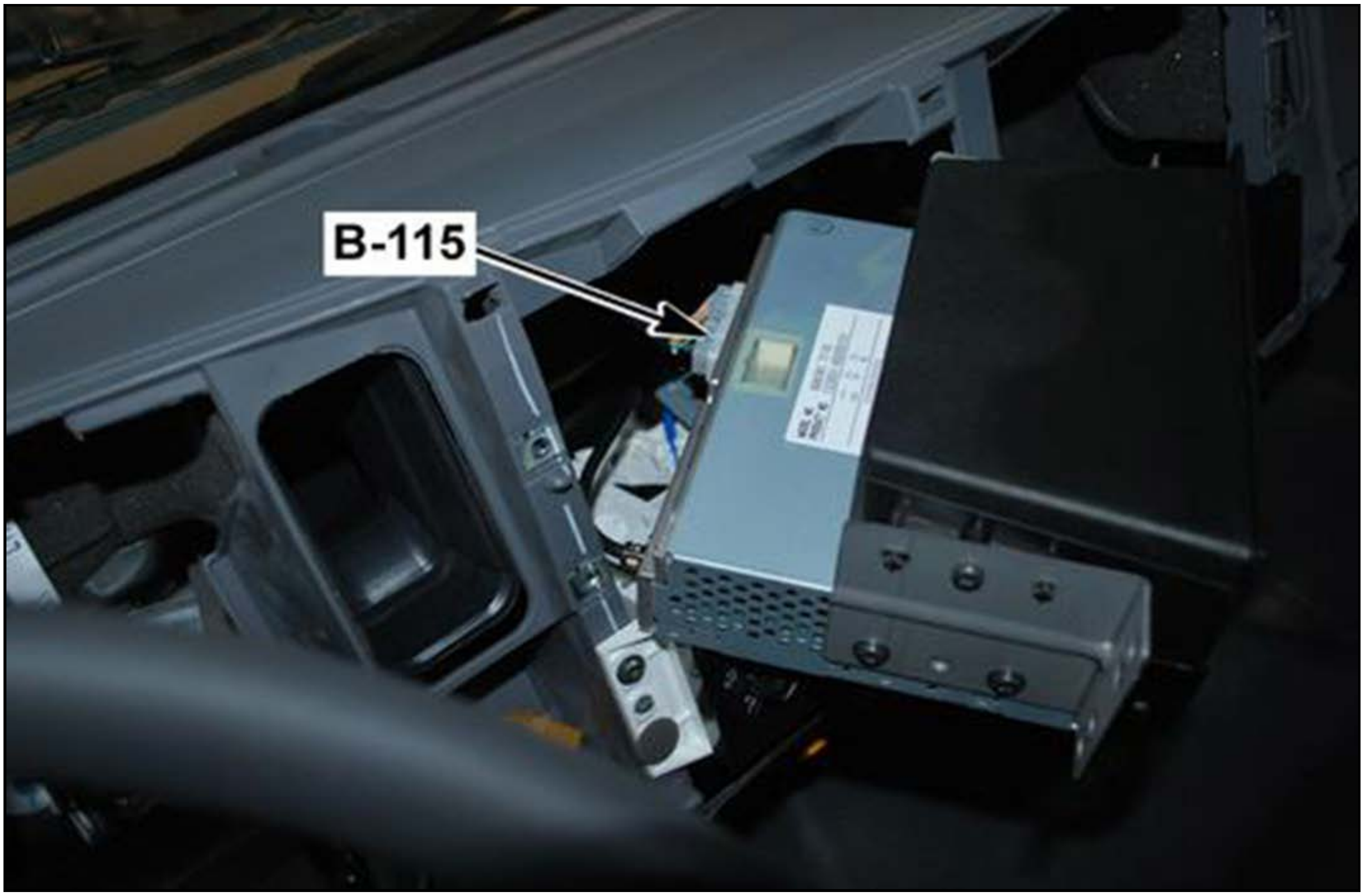
B-115



4894992

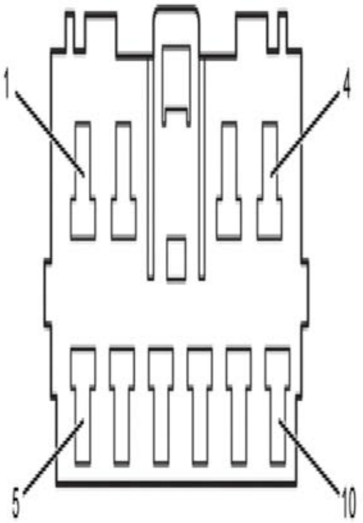
Connector Part Information		• 6240-5123 • 16-Way F (LT GRY)	
Pin	Wire Color	Circuit Number	Function
1–2	—	—	Not Used
3	LTGRN/BLK	BA030B	Dimming Control to Dimming Control Switch
4	RED/YEL	RA002B	Ignition Voltage from Fuse F-24
5	GRN/YEL	RA007B	Ignition Voltage from B-3
6	ORN	RA004B	Left Speaker Output (+)
7	GRY	RA006B	Right Speaker Output (+)
8–9	—	—	Not Used
10	BLK	RX001B	Ground to B-377 Splice Pack (B-51 Ground)
11	LT GRN/RED	BA017B	Fuse F-28 Voltage (Headlight Switch ON), Dimming Control
12–13	—	—	Not Used
14	RED	RA001B	Battery Voltage from Fuse F-3
15	BLK	RA003B	Left Speaker Output (-)
16	GRN	RA005B	Right Speaker Output (-)

B-115 Center of the IP, Back of the Radio



4895010

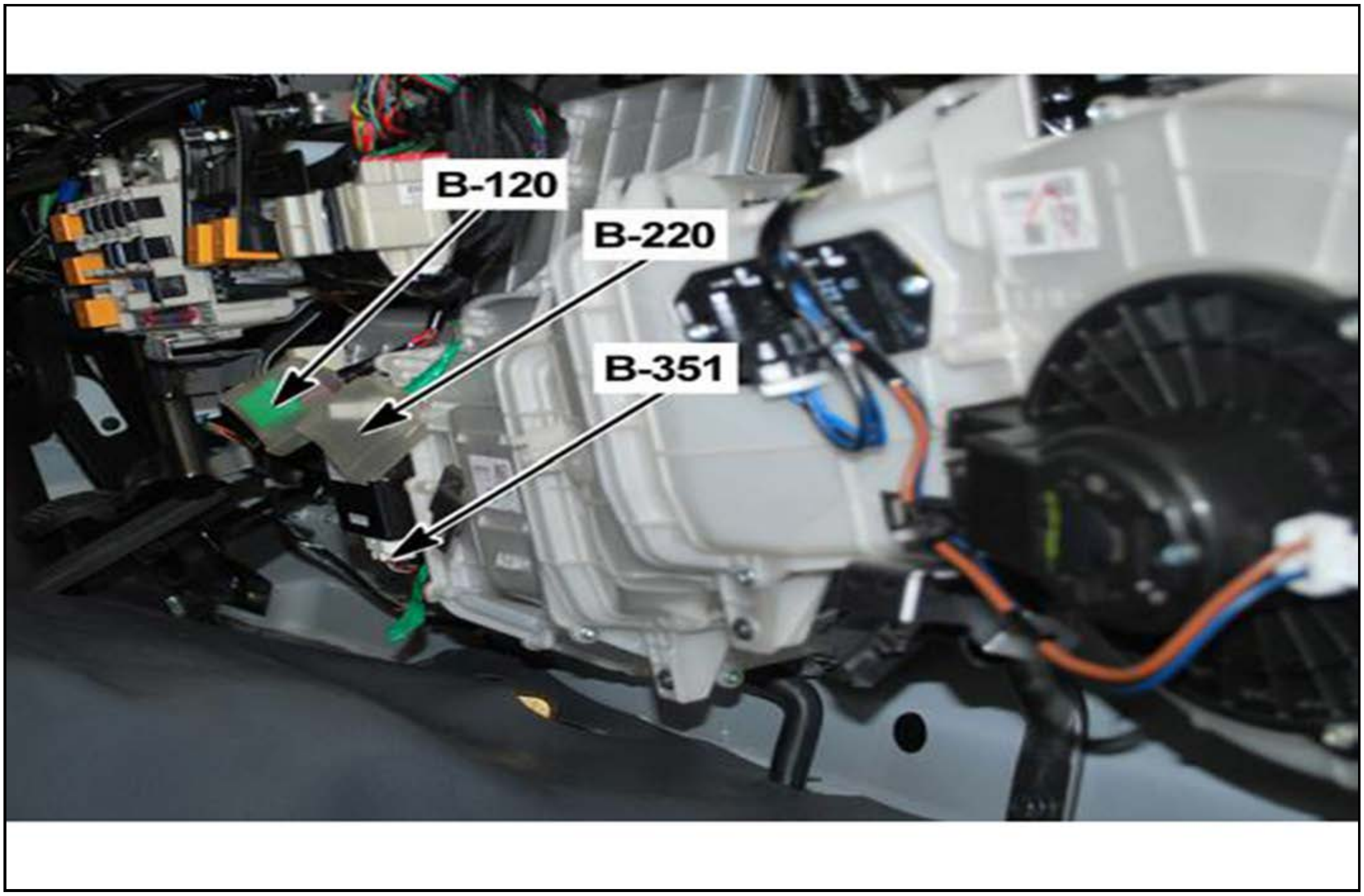
B-120 Isuzu Health Repport RS232 Connector



4895038

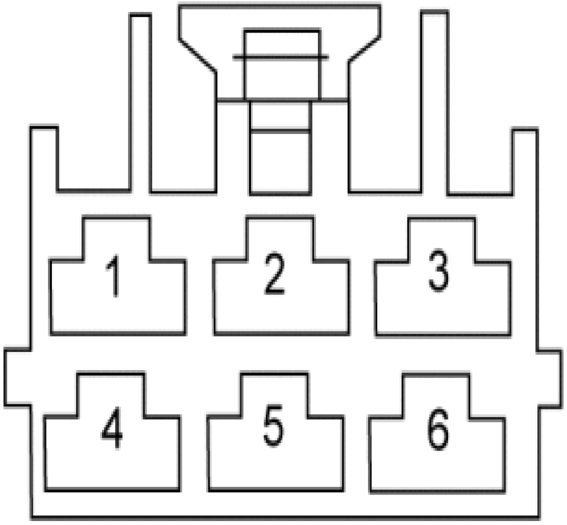
Connector Part Information		- 7323-8307-60 - 10-Way F (GRN)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED	KF006B	Key CK Signal
2	—	—	Not Used
3	RED/YEL	KF007B	Key SD Signal
4	RED/WHT	KF004B	Mode CN Signal
5	RED/GRN	KF008B	Key RD Signal
6	BLK/BLU	KF005B	Battery Voltage from Fuse F-22
7	BLU/WHT	TF142B	CAN 1 High
8	RED/BLK	KF009B	Ignition Voltage from Fuse F-18, Fuse/Relay Center (Cab)
9	BLU	TF141B	CAN 1 Low
10	BLK	KU004B	Ground to J/B 2 (B-144 pin 8) (B-53 Ground)

B-120 Center of the Instrument Panel, Below the Fuse/Relay Center (Cab)



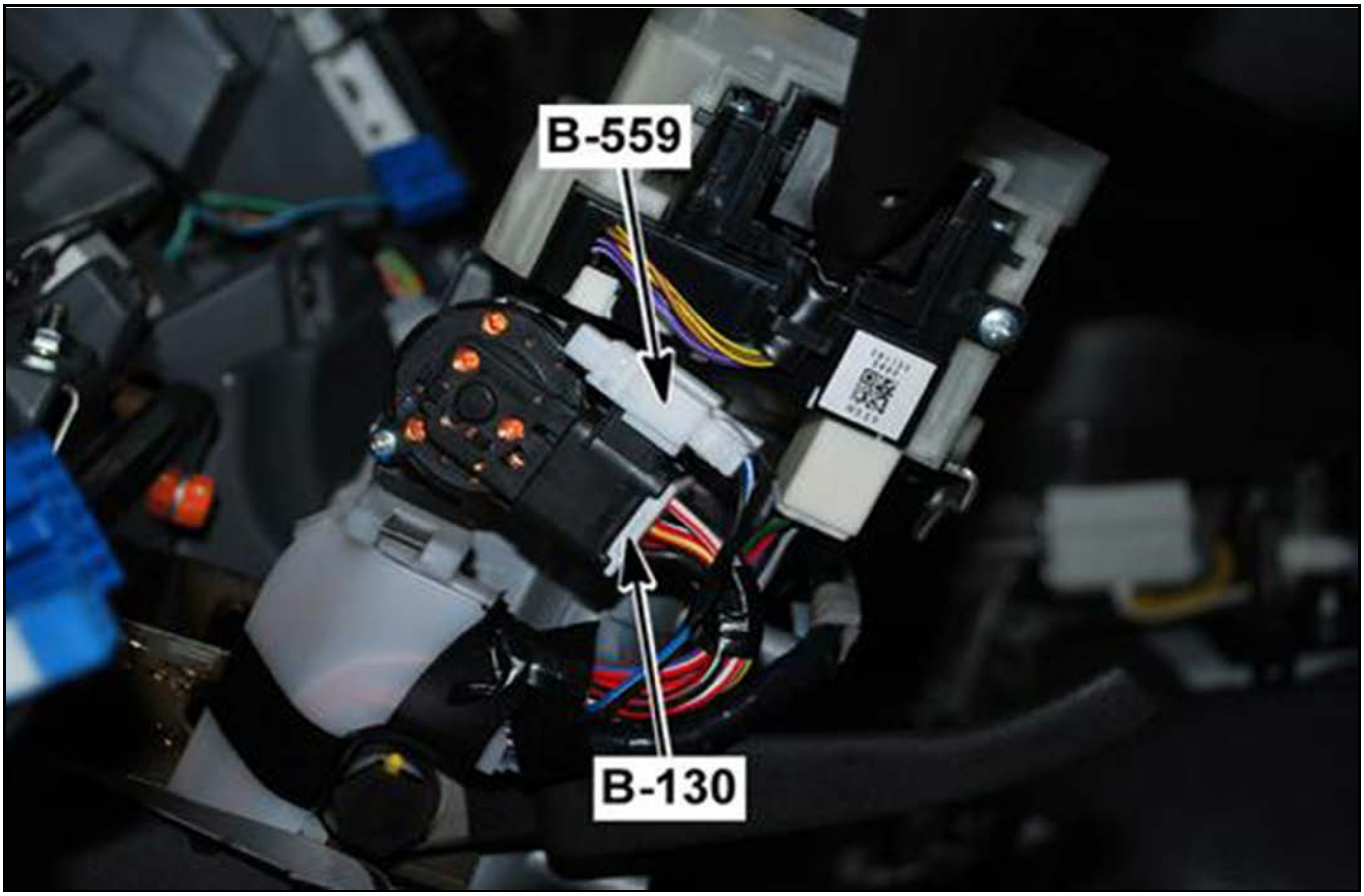
4895056

B-130 Ignition Switch



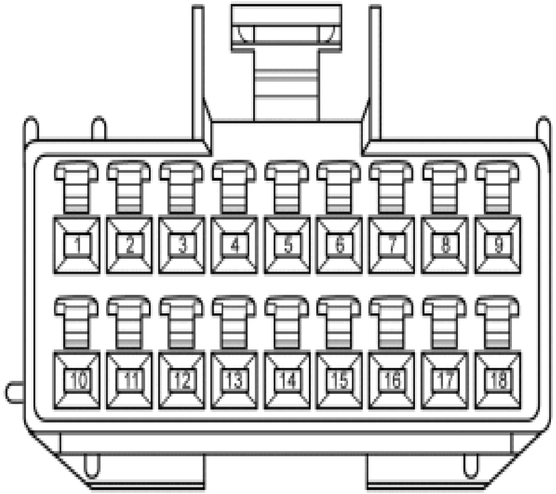
Connector Part Information		- 6098-1716) - 6-Way F (WHT	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/BLU	PA008B	Supply Voltage To Fuses F-16, F-17
2	BLK/WHT	PA029B	Supply Voltage To Fuse F-13
3	BLK/YEL	PA003B	Battery Voltage from Fuse FL-12
4	BLK/RED	PA014B	Battery Voltage from Splice 26 (Fuse FL-6)
5	RED/YEL	PA007B	Supply Voltage To Fuse F-23 and F-24
6	WHT/RED	PA030B	Supply Voltage To Fuses F-7, F-18, F-20, F-21

B-130 On the Left Side of the Steering Column Under the Steering Column Trim Covers



4895111

B-131 Junction Block (J/B) 1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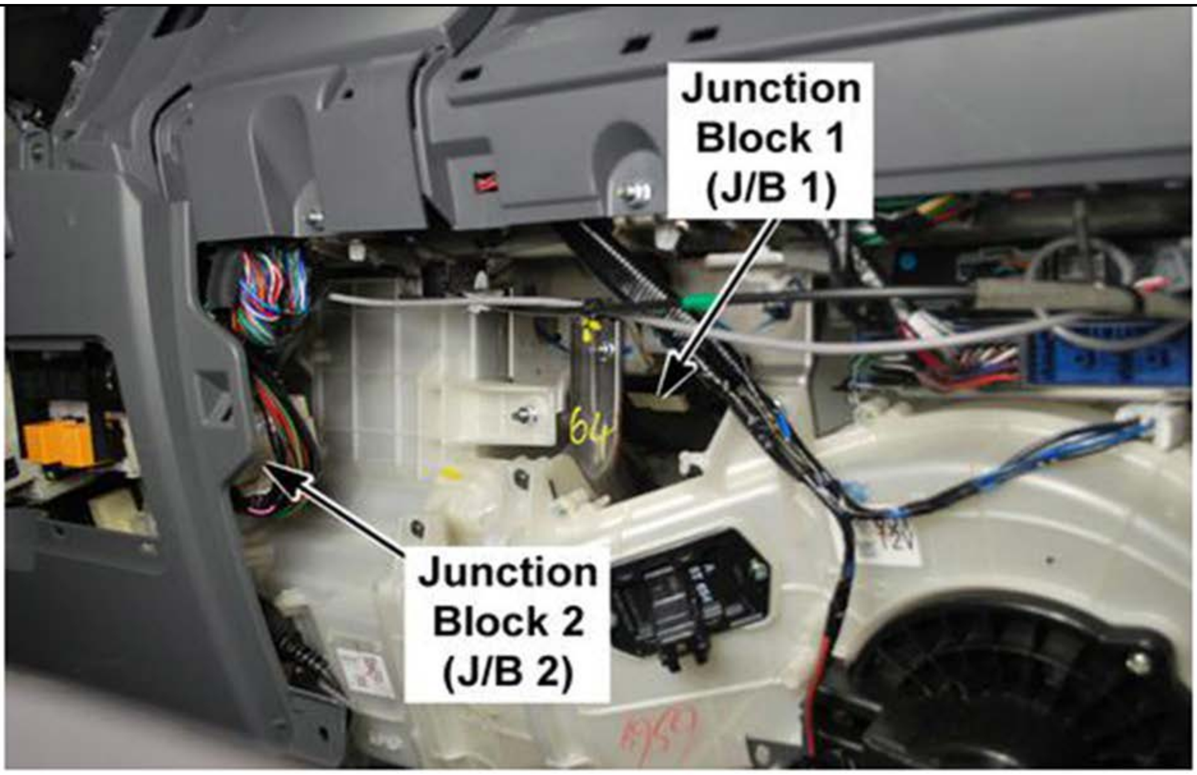
4895129

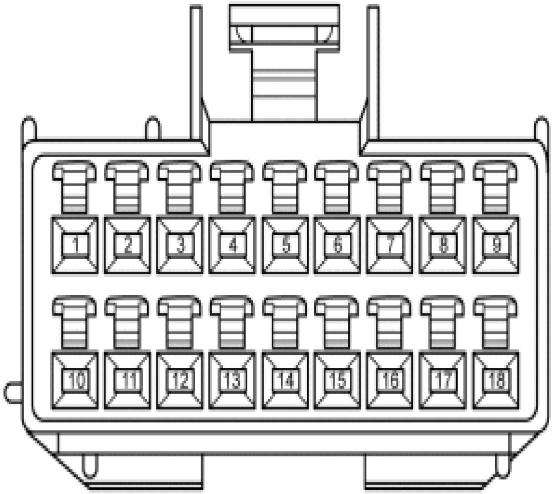
Connector Part Information		- 7383-0482 - 18-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/WHT	JA011B	Side Turn Signal (RH) Control Voltage from Flasher Module
2	RED/YEL	WA107B	Ignition Voltage from Fuse F-23 from Fuse/Relay Center (Cab) (B-23 pin 4)
3	—	—	Not Used
4	BLU/BLK	FA011B	Washer Motor Control to Wiper/Exhaust Brake Switch
5	BLU/BLK	FA009B	Washer Motor Input to Intermittent Relay
6	GRN/BLK	JA010B	Side Turn Signal (LH) Control Voltage from Flasher Module
7	—	—	Not Used
8	GRN/RED	BA041B	Fuse F-27 Voltage (Headlamp Switch ON) to Side Marker Lamp (RH)
9	BLU	HA066B	Switched Output Voltage from X-20 Compressor Clutch Relay from Relay
10	BLK/BLU	MA055B	Battery Voltage from Fuse F-22 to Miles/Oil Level Check Switch
11	BLK/ORN	IC001B	Ignition Voltage from Fuse F-20 to Engine Control Module (ECM) and Diesel Exhaust Fluid (DEF) Control Module
12	—	—	Not Used
13	RED/BLK	HC001B	Fuse F-18 Voltage to Remote Keyless Entry (RKE) Module
14	LT GRN/RED	BA022B	Fuse F-28 Voltage (Headlamp Switch ON) from Fuse/ Relay Center (Cab) (B-22 pin 11) to DPF Regen Switch
15	LT GRN/RED	BA033B	Fuse F-28 Voltage (Headlamp Switch ON) to DPF Regen Switch
16	LT GRN/BLK	BA045B	Dimming Control to Rear Dome Lamp Switch (for Rear Manufacture Connector J-118)
17	—	—	Not Used
18	RED/BLK	IC180B	Fuse F-18 Voltage to Upfitter Connector (H-104 pin A)

B-131 Behind the HVAC Housing, On the Right of the FUSE/Relay Center (Cab)


Junction Block 1 (J/B 1)
Junction Block 2 (J/B 2)
64

4895164

B-132 Junction Block (J/B) 1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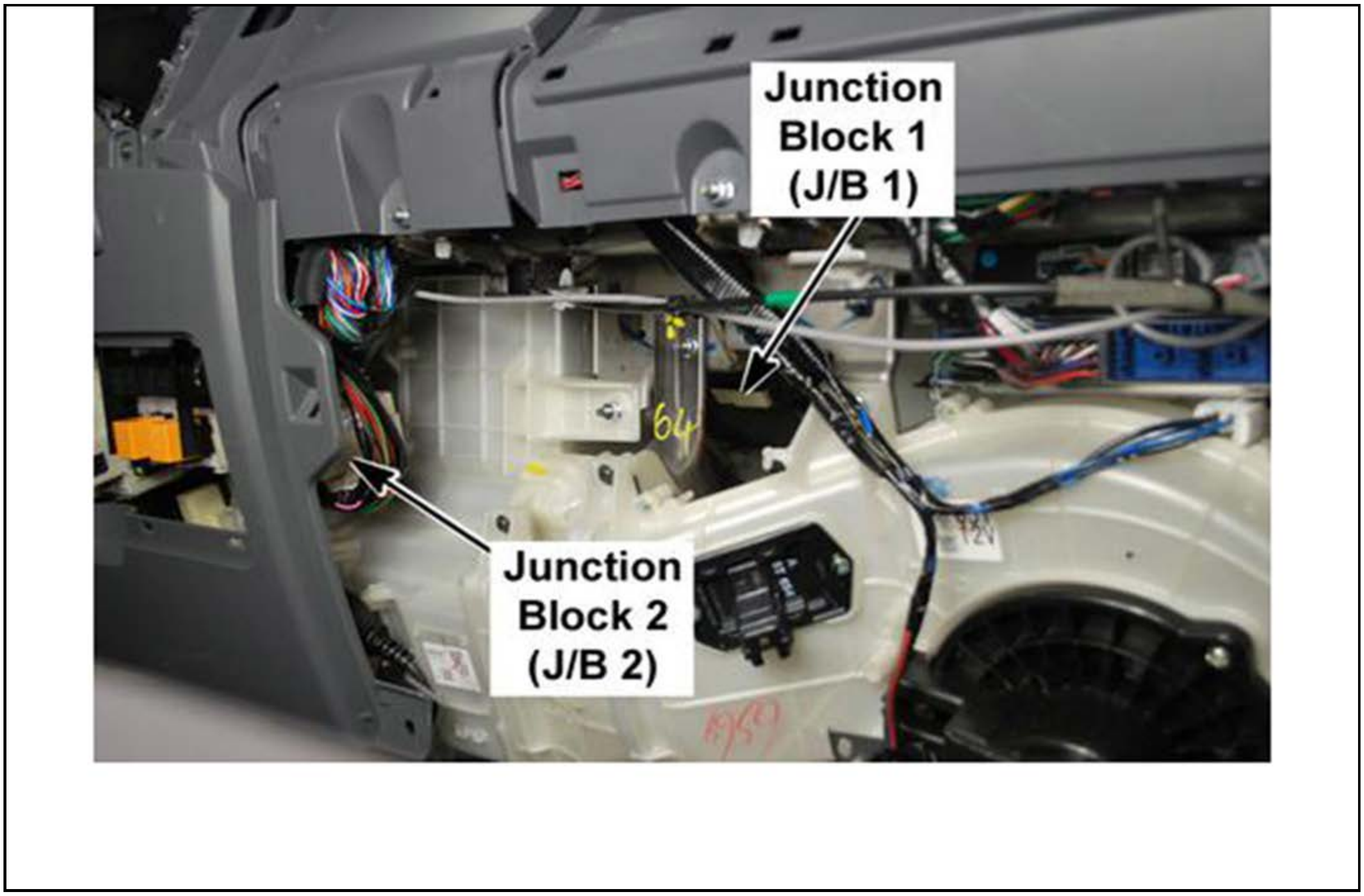
4895186

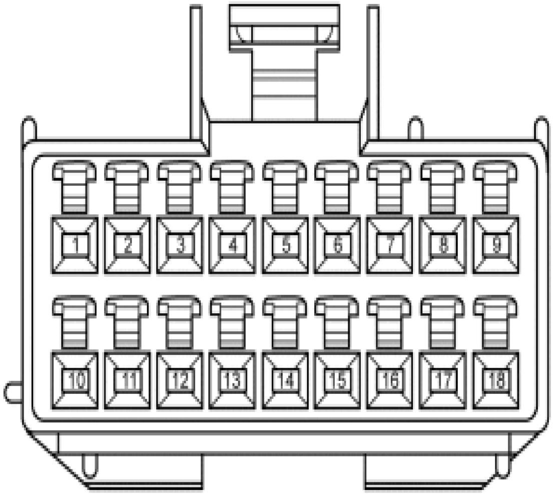
Connector Part Information		• 7383-0483-30 • 18-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/BLK	JA014B	Left Turn Signal Supply Voltage from Flasher Module
2	GRN/BLK	JA008B	Left Turn Signal Supply Voltage from Flasher Module
3	RED/BLU	JA005B	Hazard Switch Signal to the Flasher Module
4	—	—	Not Used
5	WHT/BLU	PA021B	Charge Indicator (Red) Control from Generator
6	LT GRN/RED	BA014B	Fuse F-28 Voltage (Headlamp Switch ON) to Cruise Main Switch
7	LT GRN/RED	BA039B	Fuse F-28 Voltage (Headlamp Switch ON) to Rear Dome Lamp Switch
8	GRN/RED	BA040B	Fuse F-27 Voltage (Headlamp Switch ON) to Side Marker Lamp (LH)
9	RED/BLK	FA016B	Fuse F-18 Voltage to Intermittent Wiper Relay
10	BLK/BLU	MA054B	Battery Voltage from Fuse F-22 to Miles/Oil Level Check Switch
11	BLK/ORN	IC014B	Ignition Voltage from Fuse F-20 to J/B 2 (B-145 pin 2)
12	RED/BLU	JA018B	Hazard Switch Signal from the Hazard Switch
13	LT GRN/RED	OA091B	Fuse F-18 Voltage to Shift Lever
14	—	—	Not Used
15	LT GRN/RED	BA019B	Fuse F-28 Voltage (Headlamp Switch ON) to Hazard Switch
16	VIO/WHT	AA069B	Combination Switch Signal from Combination Switch
17	GRN/RED	BA009B	Fuse F-27 Voltage (Headlamp Switch ON)
18	—	—	Not Used

B-131 Behind the HVAC Housing, On the Right of the FUSE/Relay Center (Cab)


Junction Block 1 (J/B 1)
Junction Block 2 (J/B 2)
64
12V

4895164

B-133 Junction Block (J/B) 1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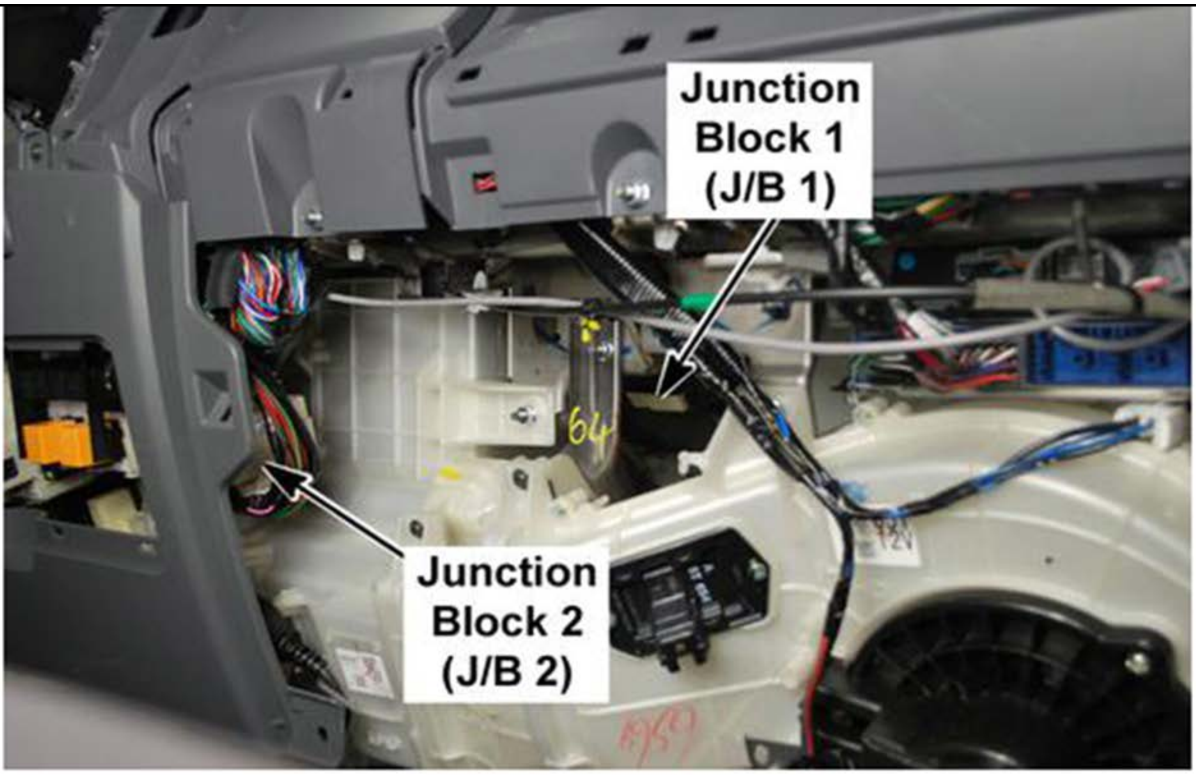
4895199

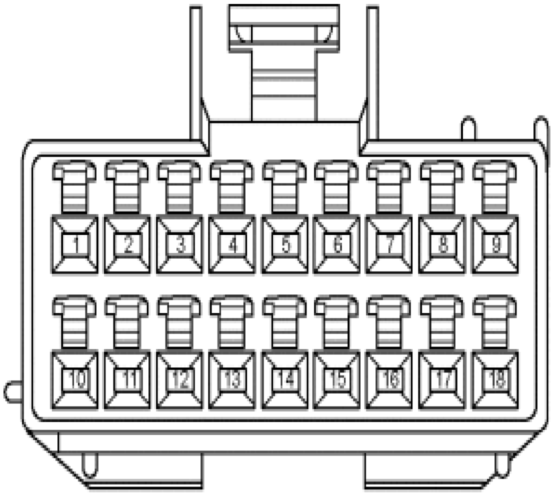
Connector Part Information		• 7383-0484-40 • 18-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/YEL	WA007B	Ignition Voltage from Fuse F-23 to Power Window Switch
2	BLK/ORN	IC043B	Ignition Voltage from Fuse F-20 from J/B 2 (B- 140 pin 11)
3	RED/BLU	HC004B	Fuse F-18 Voltage from J/B 1 (B-136 pin 7)
4	RED/BLK	PA060B	Battery Voltage from Fuse F-18 from J/B 1)B- 136 pin 7)
5	GRN/WHT	JA007B	Right Turn Signal Supply Voltage to Instrument Panel Cluster (IPC)
6	LT GRN/BLK	BA006B	Dimming Control to Heated Mirror Switch
7	LT GRN/BLK	BA051B	Dimming Control to Dimming Control Switch
8	LT GRN/BLK	BX026B	Dimming Control to Door Lock Switch
9	LT GRN/BLK	BA020B	Dimming Control to Miles/Oil Level Check Switch
10	BLU	HA013B	Switched Output Voltage from X-20 Compressor Clutch Relay to A/C Pressure Switch
11	BLU	HA054B	Switched Output Voltage from X-20 Compressor Clutch Relay to Condenser Fan Relay
12	BLU/BLK	FA010B	Washer Motor Control from Washer Motor
13	RED/BLK	PA031B	Battery Voltage from Fuse F18, Fuse/Relay Center (Cab)
14	WHT/BLU	PA028B	Charge Indicator Control (Red) to IPC
15	RED/BLK	IC186B	Fuse F-18 Voltage to J/B 2 (B-140 pin 5)
16	WHT/BLK	MA098B	Parking Brake Switch Signal from Parking Brake Switch
17	LT GRN/RED	BA021B	Fuse F-28 Voltage (Headlamp Switch ON) to Miles/Oil Level Check Switch
18	—	—	Not Used

B-131 Behind the HVAC Housing, On the Right of the FUSE/Relay Center (Cab)


Junction Block 1 (J/B 1)
Junction Block 2 (J/B 2)

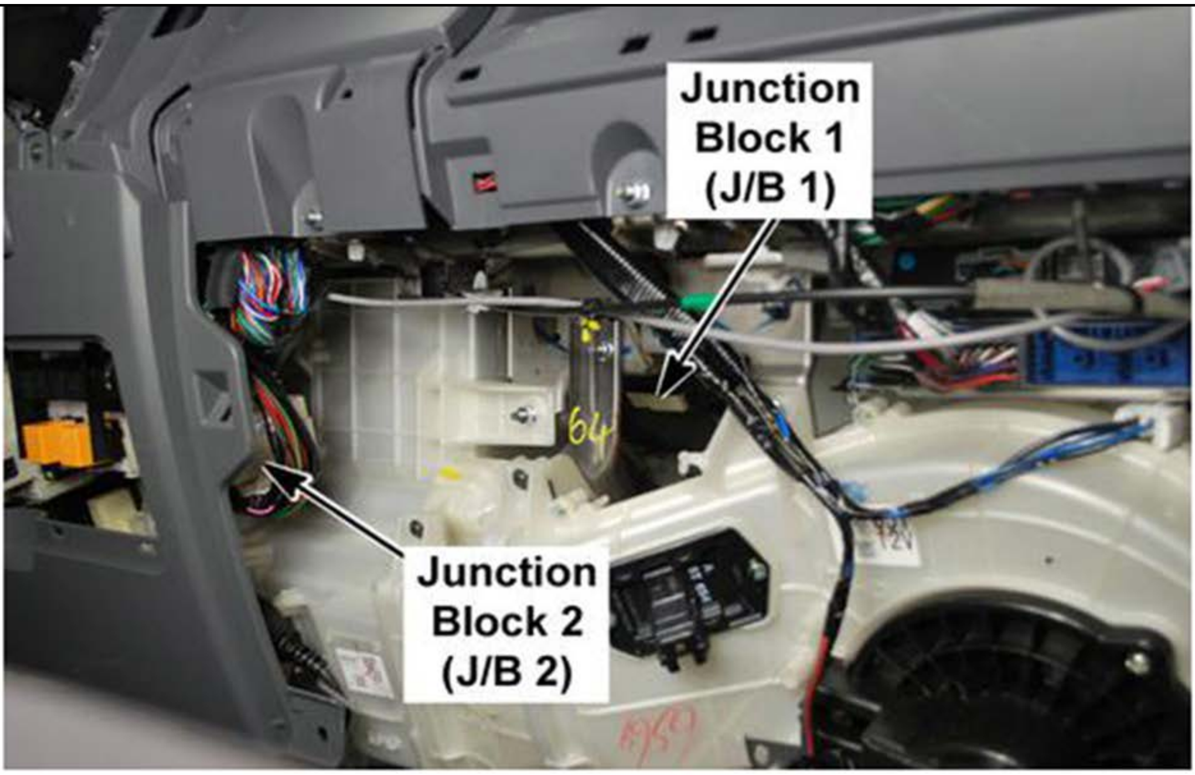
4895164

B-134 Junction Block (J/B) 1



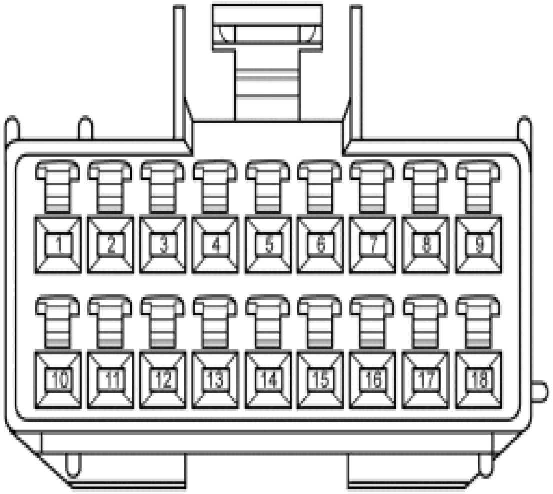
Connector Part Information		• 7383-0485-90 • 18-Way F (BLU)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	—	—	Not Used
2	GRN/BLK	JA006B	Left Turn Signal Supply Voltage to Instrument Panel Cluster (IPC)
3	—	—	Not Used
4	VIO/WHT	AA019B	Combination Switch Signal to DRL Module
5	—	—	Not Used
6	WHT/BLK	MA004B	Parking Brake Switch Signal to IPC
7	LT GRN/BLK	BA060B	Dimming Control to J/B 1 (B-138 pin 12)
8	LT GRN/RED	BA012B	Fuse F-28 Voltage (Headlamp Switch ON) to Heated Mirror Switch
9	LT GRN/RED	BA049B	Fuse F-28 Voltage (Headlamp Switch ON) to Dimmer Switch
10	BLK/ORN	OA087B	Ignition Voltage from Fuse F-20 to Transmission Control Module (TCM)
11	GRN/BLK	JA012B	Front Turn Signal (LH) Control Voltage
12	—	—	Not Used
13	—	—	Not Used
14	VIO/WHT	JA109B	Cornering Light Relay Control Coil Control from Diode 3
15	—	—	Not Used
16	LT GRN/BLK	IC094B	Dimming Control to PTO Up/Down Switch
17	WHT/BLU	AA029B	Charge Indicator (Red) Signal to DRL Module
18	—	—	Not Used

B-131 Behind the HVAC Housing, On the Right of the FUSE/Relay Center (Cab)


Junction Block 1 (J/B 1)
Junction Block 2 (J/B 2)

4895164

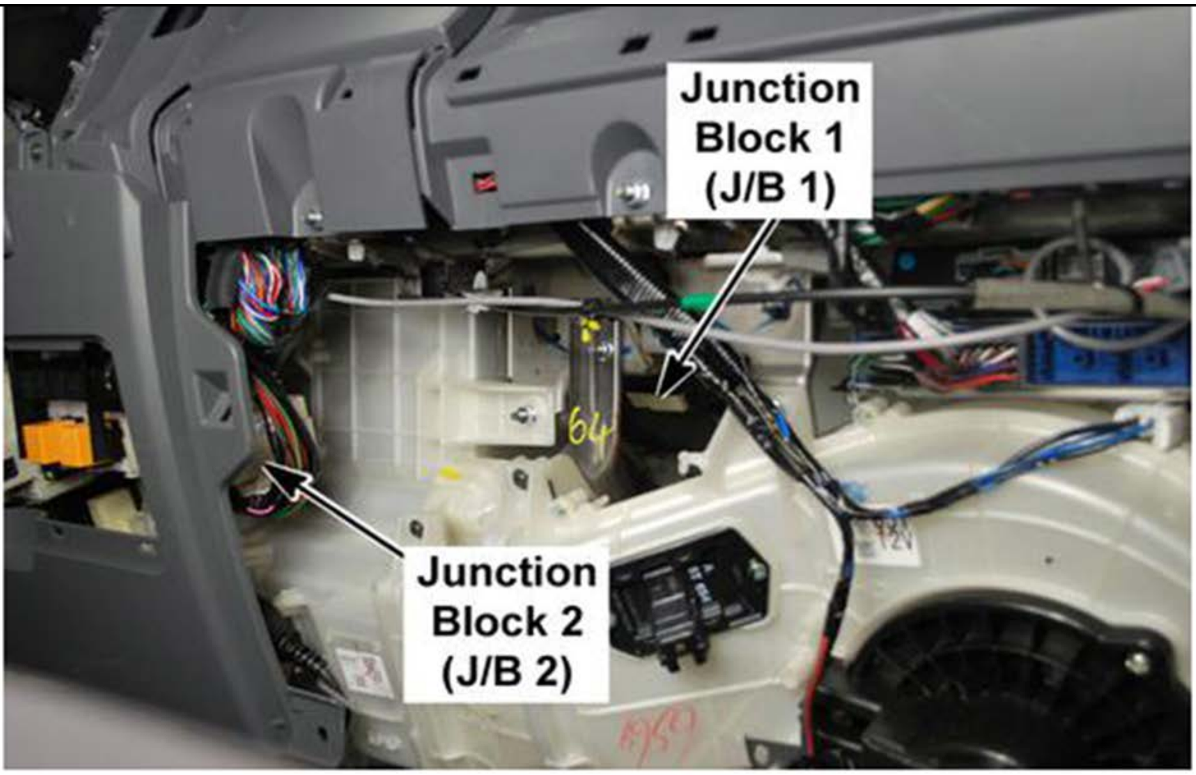
B-135 Junction Block (J/B) 1



4895222

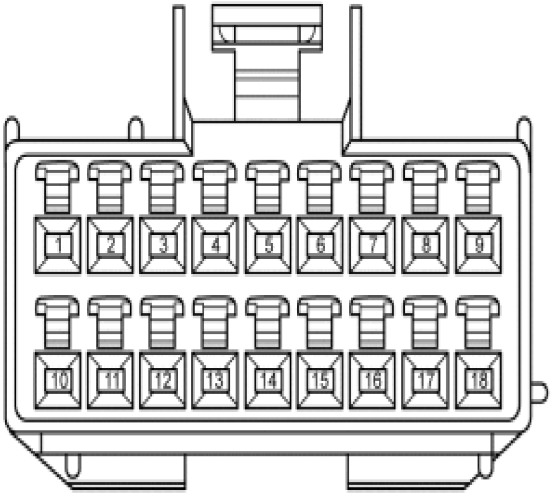
Connector Part Information		• 7383-0486-50 • 18-Way F (RED)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	LT GRN/BLK	BA013B	Dimming Control to Cruise Main Switch
2–5	—	—	Not Used
6	RED/YEL	SA003B	Ignition Voltage from Fuse F-24 from J/B 2 (B- 146 pin 5)
7	—	—	Not Used
8	BLK/ORN	IC084B	Ignition Voltage from Fuse F-20 to Radiator Level Control Module
9	LT GRN/BLK	BA043B	Dimming Control to Hazard Switch
10	—	—	Not Used
11	LT GRN/BLK	HX002B	Dimming Control to HVAC Control Panel
12–13	—	—	Not Used
14	RED/YEL	RA002B	Ignition Voltage from Fuse F-24 to Radio
15	RED/YEL	SA040B	Ignition Voltage from Fuse F-24 to Cigar Lighter Relay (Coil Control)
16	LT GRN/RED	BA017B	Fuse F-28 Voltage (Headlamp Switch ON) to Radio
17	LT GRN/BLK	BA030B	Dimming Control to Radio
18	RED/WHT	AA032B	Combination Switch Signal (High Beam) from Combination Switch

B-131 Behind the HVAC Housing, On the Right of the FUSE/Relay Center (Cab)


Junction Block 1 (J/B 1)
Junction Block 2 (J/B 2)

4895164

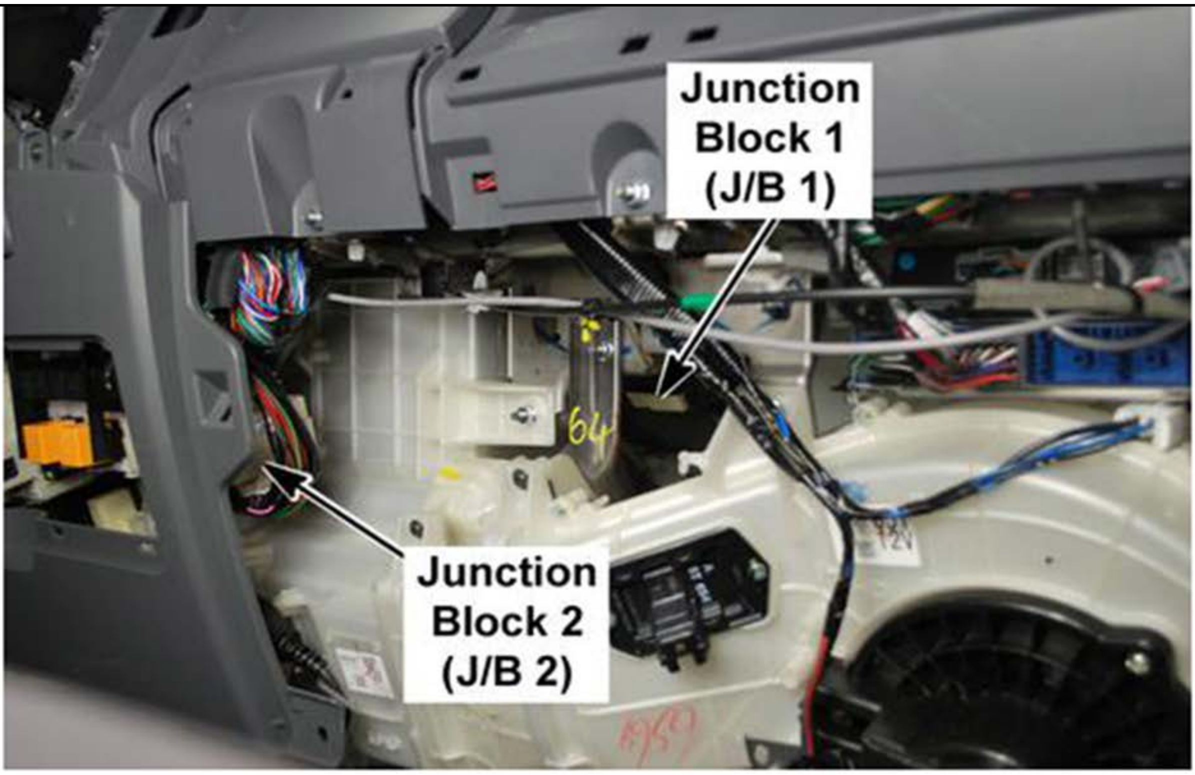
B-136 Junction Block (J/B) 1



4895285

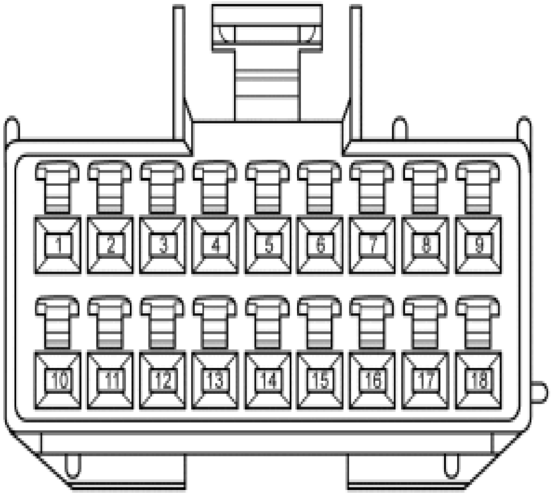
Connector Part Information		• 7383-0487-80 • 18-Way F (BRN)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1–4	—	—	Not Used
5	GRN/WHT	JA009B	Right Turn Signal Supply Voltage from Flasher Module
6	RED/YEL	SA041B	Ignition Voltage from Fuse F-24 to Power ACC Relay (Coil Feed)
7	RED/BLK	PA060B	Battery Voltage from Fuse F-18 to J/B 1 (B-133 pin 4)
8	BLU/RED	FA021B	Wiper Run/Park Signal to Intermittent Relay
9	BLU/RED	FA020B	Wiper Low Signal from Wiper/Exhaust Brake Switch
10	LT GRN/BLK	BA038B	Dimming Control to DPF Regen Switch
11–12	—	—	Not Used
13	BLK/BLU	PA012B	Battery Voltage from Fuse F-22 from Fuse/Relay Center (Cab) (B-22 pin 3)
14	GRN/WHT	JA015B	Right Turn Signal Supply Voltage from Flasher Module
15	BLK/RED	JA004B	X-5 Cornering Lamp Relay Switched Output Voltage from Fuse/Relay Center (Cab)
16	BLK/ORN	IC141B	Ignition Voltage from Fuse F-20 to DPF Regen Switch
17	BLU/RED	FA006B	X-6 Wiper Main Relay Coil Control
18	—	—	Not Used

B-131 Behind the HVAC Housing, On the Right of the FUSE/Relay Center (Cab)


Junction Block 1 (J/B 1)
Junction Block 2 (J/B 2)
64
12V

4895164

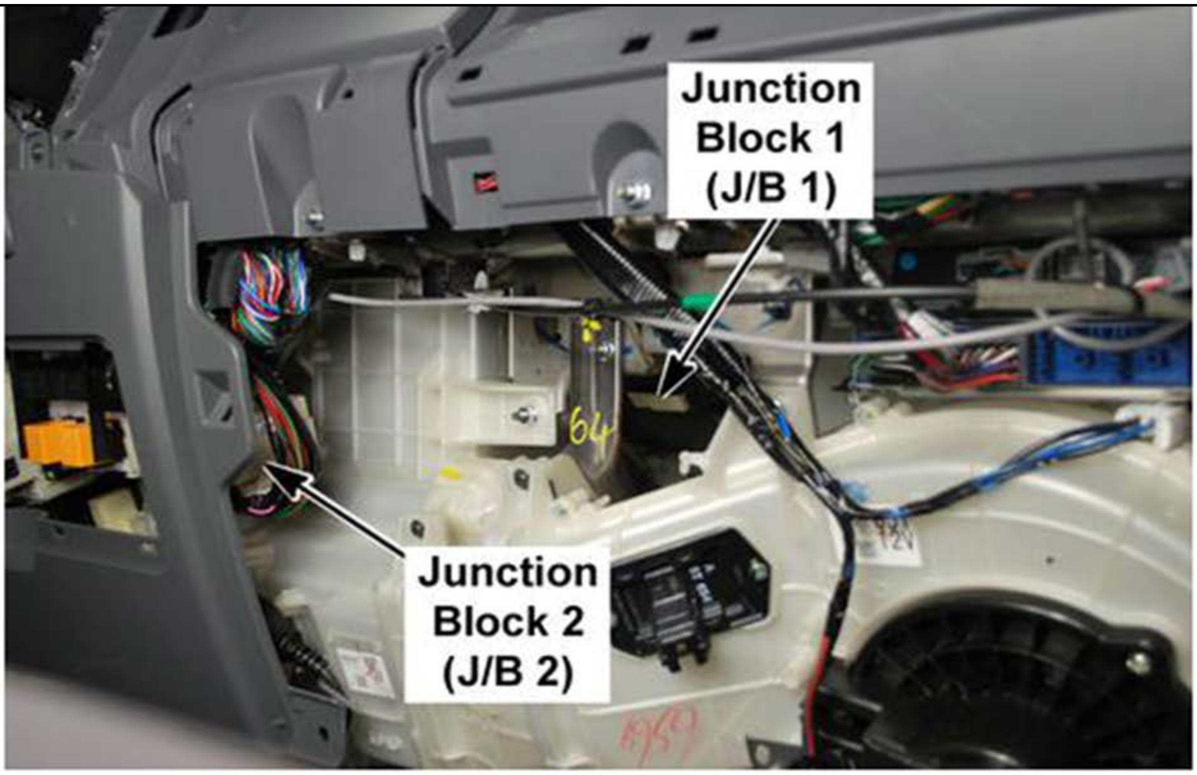
B-137 Junction Block (J/B) 1



4895341

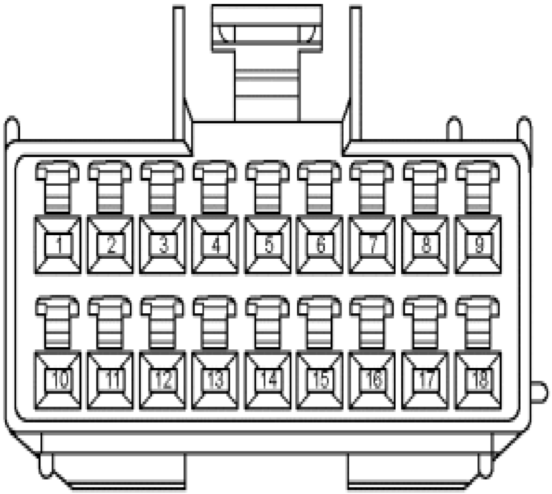
Connector Part Information		- 7383-0488-60 - 18-Way F (GRN)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK/BLU	MA005B	Battery Voltage from Fuse F-22 to Instrument Panel Cluster (IPC)
2	BLK/BLU	KF021B	Battery Voltage from Fuse F-22 to Mimamori Module
3	RED/WHT	AA002B	X-15 Headlamp Relay Coil Control from Fuse/Relay Center (B-18 pin 7)
4	BLK/BLU	PA050B	Battery Voltage from Fuse F-22 to J/B 1 (B-137 pin 16)
5	BLK/BLU	KF005B	Battery Voltage from Fuse F-22 to Isuzu Health Report RS232 Connector
6–10	—	—	Not Used
11	LT GRN/BLK	IC077B	Dimming Control to PTO Switch
12–15	—	—	Not Used
16	BLK/BLU	PA050B	Battery Voltage from Fuse F-22 from J/B 1 (B- 137 pin 4)
17–18	—	—	Not Used

B-131 Behind the HVAC Housing, On the Right of the FUSE/Relay Center (Cab)


Junction Block 1 (J/B 1)
Junction Block 2 (J/B 2)

4895164

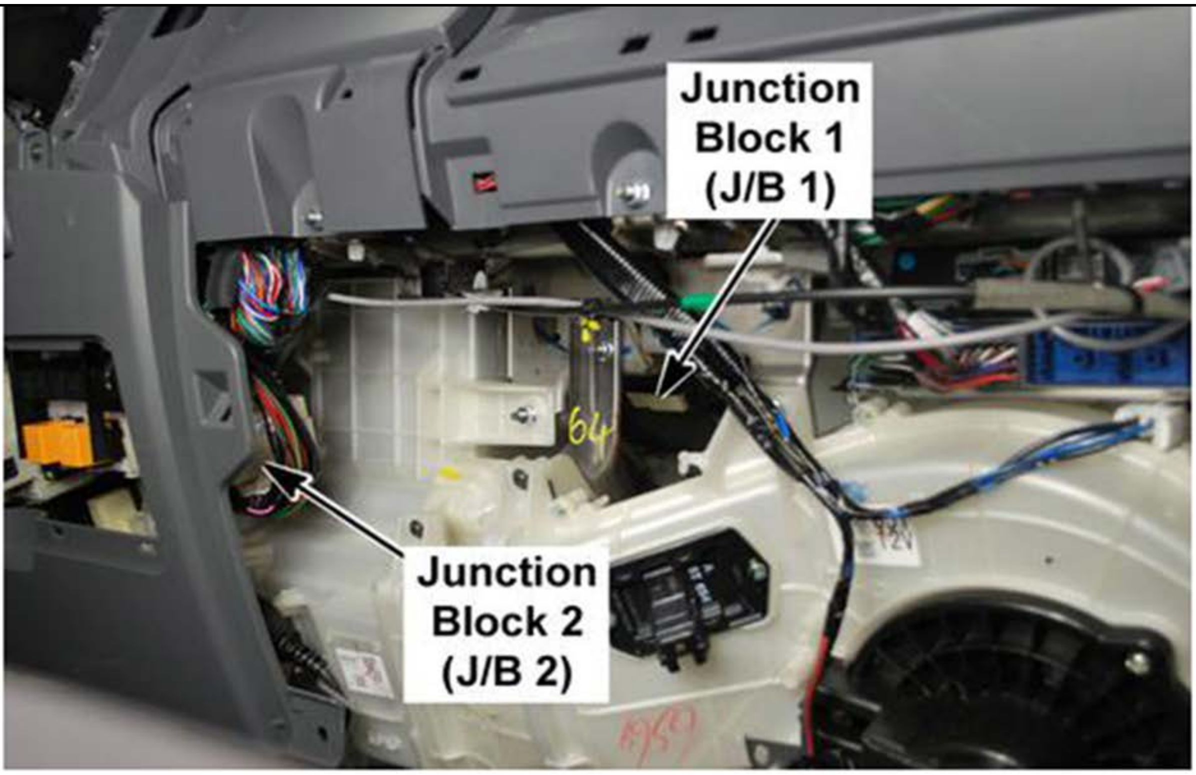
B-138 Junction Block (J/B) 1



4895353

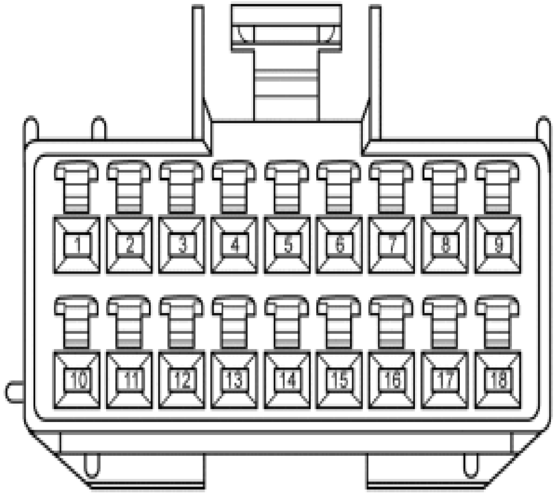
Connector Part Information		• 7383-0489-50 • 18-Way F (ORN)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/BLK	KA016B	Fuse F-18 Voltage to Reverse Lamp Relay (Coil Control)
2	LT GRN/BLK	MA036B	Dimming Control to IPC
3–4	—	—	Not Used
5	GRN/RED	BA026B	Fuse F-27 Voltage (Headlamp Switch ON) from Fuse/ Relay Center (Cab) (B-23 pin 6)
6	BLK/RED	QB005B	X-5 Cornering Lamp Relay Switched Output Voltage to Cornering Lamp (RH)
7	GRN/WHT	JA013B	Front Turn Signal (RH) Control Voltage
8	LT GRN/RED	BA042B	Fuse F-28 Voltage (Headlamp Switch ON) to Door Lock Switch
9	—	—	Not Used
10	WHT/BLK	AA021B	Park Brake Switch Signal from DRL Module
11	LT GRN/BLK	BA063B	Dimming Control to Shift Lever
12	LT GRN/BLK	BA060B	Dimming Control to J/B 1 (B-134 pin 7)
13	—	—	Not Used
14	RED/WHT	AA023B	High Beam Headlamp Relay Coil Control
15	BLK/RED	QB004B	X-5 Cornering Lamp Relay Switched Output Voltage to Cornering Lamp (LH)
16	—	—	Not Used
17	LT GRN/RED	BA061B	Fuse F-28 Voltage (Headlamp Switch ON) to Shift Lever
18	RED/YEL	KF003B	Ignition Voltage from Fuse F-23 to Mimamori Module

B-131 Behind the HVAC Housing, On the Right of the FUSE/Relay Center (Cab)


Junction Block 1 (J/B 1)
Junction Block 2 (J/B 2)
64

4895164

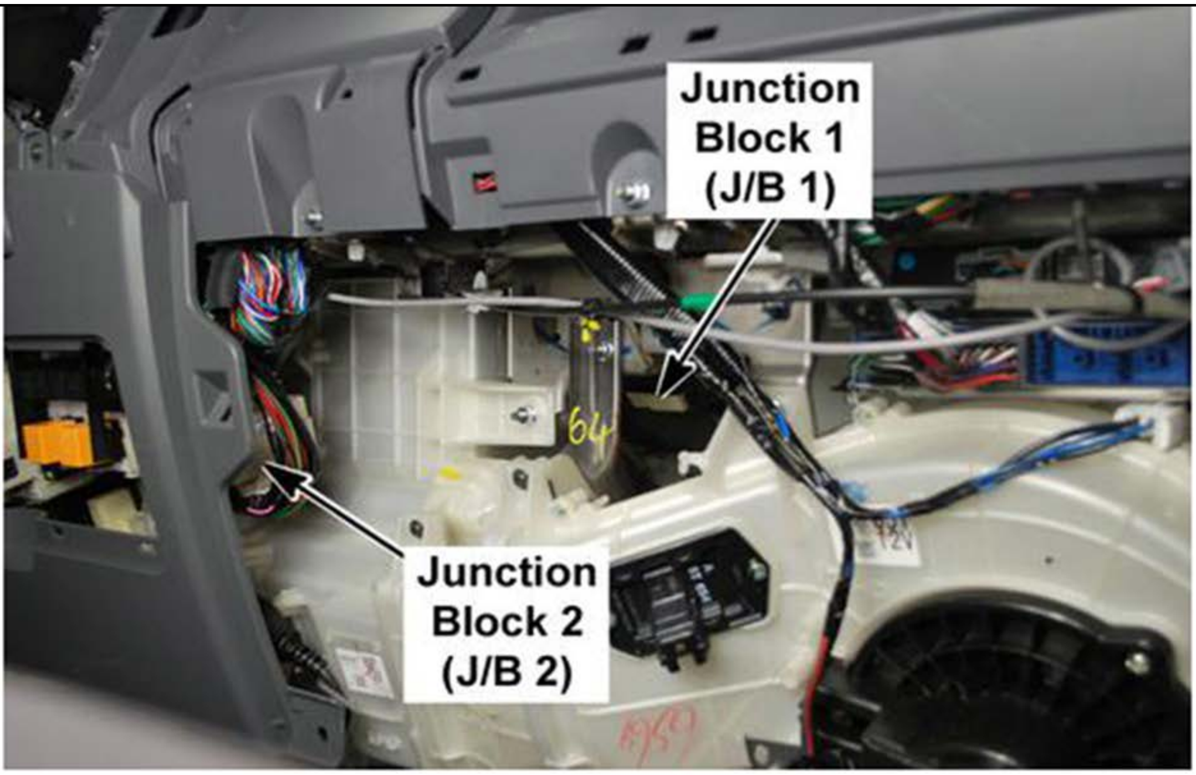
B-139 Junction Block (J/B) 2



4895388

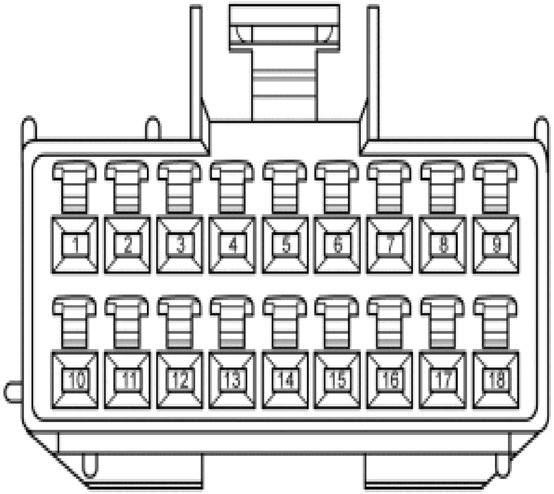
Connector Part Information		• 7383-0482 • 18-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	—	—	Not Used
2	BLK/RED	HA062B	Fuse F-30 Voltage (Fan Control Switch ON) to Compressor Clutch Relay (X-20)
3–4	—	—	Not Used
5	BLK/RED	HA028B	Fuse F-30 Voltage (Fan Control Switch ON) from Fuse/ Relay Center (Cab)
6	BLK/RED	HA008B	Fuse F-30 Voltage (Fan Control Switch ON) to A/C Switch
7–10	—	—	Not Used
11	BLK/RED	HA064B	Fuse F-30 Voltage (Fan Control Switch ON) to Defroster Switch
12	—	—	Not Used
13	PNK	IC089B	PTO Switch 2 Signal from Switch
14	LT BLU	MA011B	ISO 14230 communication to DLC Connector
15	LT BLU	GG004B	ISO 14230 communication to FMS Module
16	LT BLU	KF018B	ISO 14230 communication to Mimamori Module
17	PNK	IC099B	PTO Switch 2 ON Indicator Control
18	—	—	Not Used

B-131 Behind the HVAC Housing, On the Right of the FUSE/Relay Center (Cab)


Junction Block 1 (J/B 1)
Junction Block 2 (J/B 2)

4895164

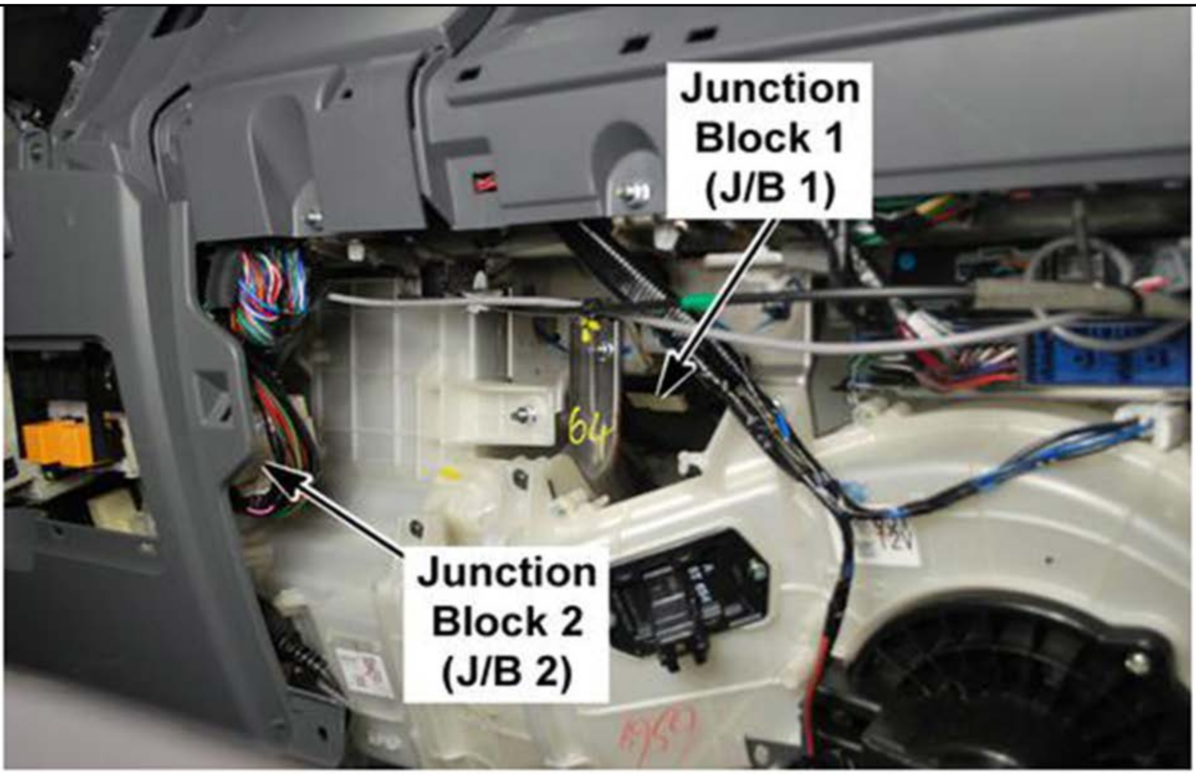
B-140 Junction Block (J/B) 2



4895401

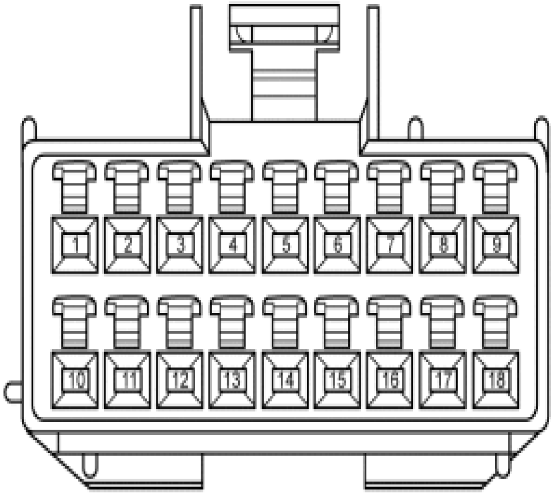
Connector Part Information		• 7383-0483-30 • 18-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	—	—	Not Used
2	BLK/ORN	IC081B	Ignition Voltage from Fuse F-20, Fuse/Relay Center (Cab)
3	GRN/BLK	VA019B	Door Lock Signal To Door Lock Relay
4	GRN/BLK	VA100B	Door Lock Signal to Diode Door Lock (In)
5	RED/BLK	IC186B	Fuse F-18 Voltage from J/B 1 (B-133 pin 15)
6	RED/BLK	IC196B	Fuse F-18 Voltage to PTO Switch
7	RED/YEL	WA018B	Heated Mirror Switch ON indicator Control Voltage
8–10	—	—	Not Used
11	BLK/ORN	IC043B	Ignition Voltage from Fuse F-20 to J/B 1 (B-133 pin 2)
12	GRN/BLK	VA004B	Door Lock Signal from Front Door Lock Switch
13	GRN/YEL	PA151B	Ignition Voltage from Fuse F-21 from Fuse/Relay Center (Cab)
14	GRN/YEL	MA001B	Ignition Voltage from Fuse F-21 to Instrument Panel Cluster (IPC)
15	GRN/YEL	GG012B	Ignition Voltage from Fuse F-21 to B-454 Splice Pack
16–17	—	—	Not Used
18	RED/BLK	KF009B	Fuse F-18 Voltage to Health Report RS232 Cable Connector

B-131 Behind the HVAC Housing, On the Right of the FUSE/Relay Center (Cab)


Junction Block 1 (J/B 1)
Junction Block 2 (J/B 2)
64

4895164

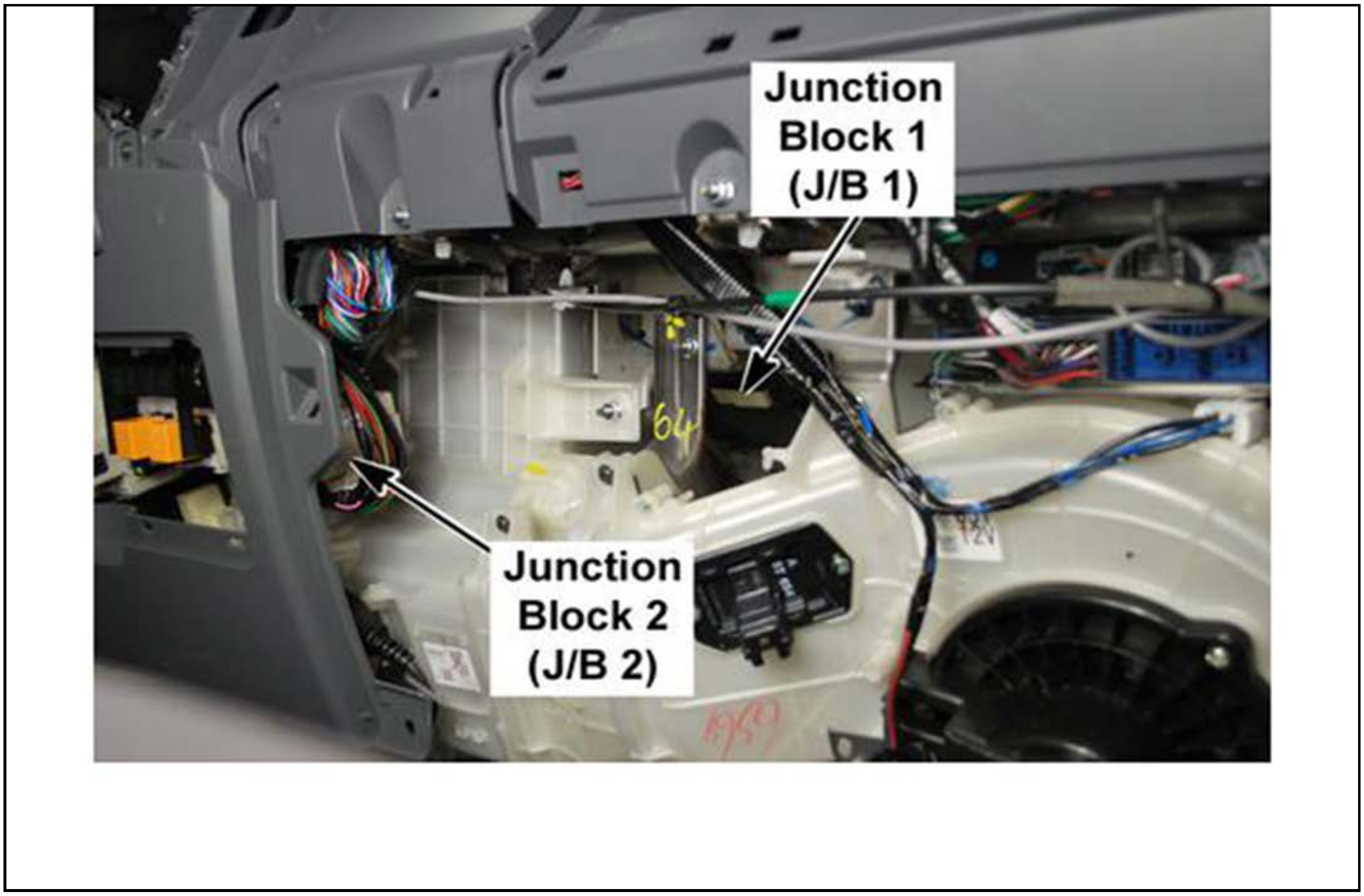
B-141 Junction Block (J/B) 2



4895412

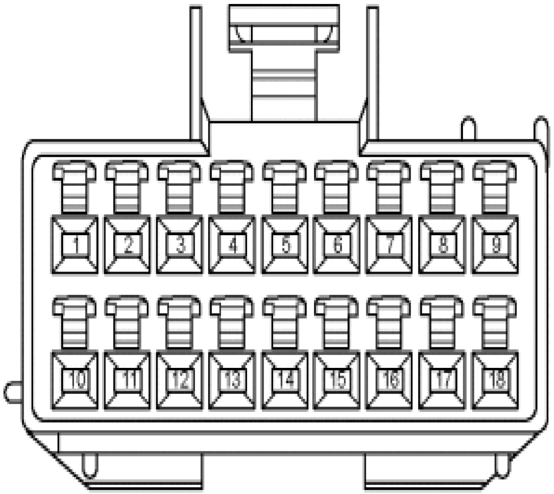
Connector Part Information		• 7383-0484-40 • 18-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	—	—	Not Used
2	BLK/ORN	IC101B	Ignition Voltage from Fuse F-20 to Stop Lamp Switch Relay
3–4	—	—	Not Used
5	—	—	—
6	BLK	MX004B	Ground to Fuel Tank Unit (B-53 Ground)
7	PNK	IC091B	Not Used
8	BLK	MX003B	Ground to Instrument Panel Cluster (IPC) (B-53 Ground)
9	—	—	Not Used
10	RED/BLK	DA001B	Switched Output Voltage From Horn Relay X-7 from Fuse/Relay Center (Cab) (B-18 pin 9)
11	RED/BLK	DA002B	Switched Output Voltage From Horn Relay X-7 to Horn (LH)
12–14	—	—	Not Used
15	BLK	ZZ010B	Ground to Data Link Connector (B-53 Ground)
16–18	—	—	Not Used

B-131 Behind the HVAC Housing, On the Right of the FUSE/Relay Center (Cab)


Junction Block 1 (J/B 1)
Junction Block 2 (J/B 2)
64
12V

4895164

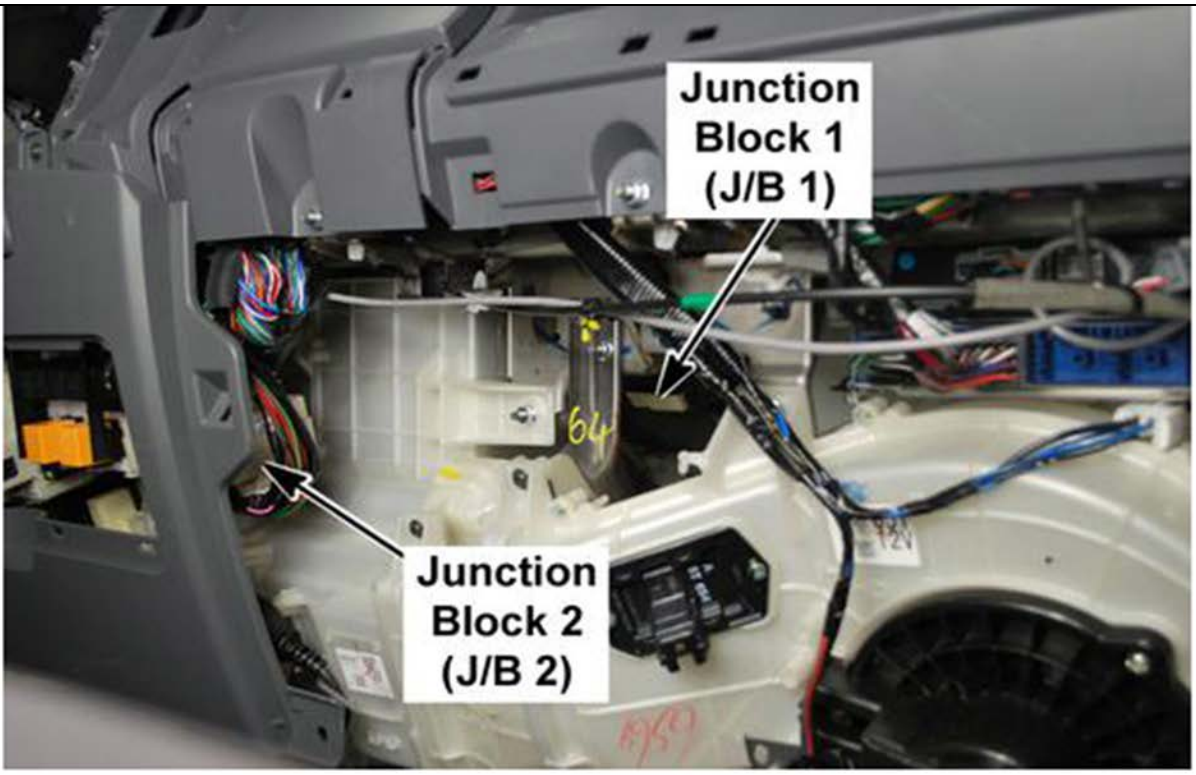
B-142 Junction Block (J/B) 2



4895432

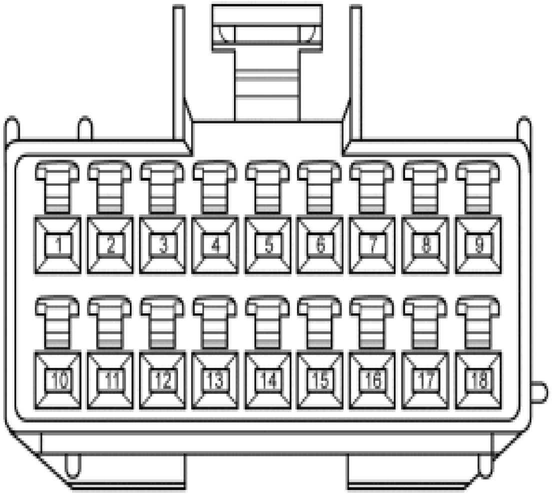
Connector Part Information		• 7383-0485-90 • 18-Way F (BLU)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1–4	—	—	Not Used
5	PNK	IC181B	PTO Switch 2 Signal to ECM and Remote PTO Switch
6–8	—	—	Not Used
9	YEL	WA103B	Heated Mirror Switch, Heater Switch (RH) Voltage to Mirror Heater Relay (RH)
10–11	—	—	Not Used
12	BLK/ORN	IC102B	Ignition Voltage from Fuse F-20 to Stop Lamp Switch Relay
13	BLK/ORN	IC045B	Ignition Voltage from Fuse F-20 to Wiper/Exhaust Brake Switch
14	RED/BLK	DA003B	Switched Output Voltage From Horn Relay X-7 to Horn (RH)
15	—	—	Not Used
16	BLK	ZZ029B	Ground to B-53
17	—	—	Not Used
18	RED/YEL	WA021B	Heated Mirror Switch, Heater Switch (RH) Voltage

B-131 Behind the HVAC Housing, On the Right of the FUSE/Relay Center (Cab)


Junction Block 1 (J/B 1)
Junction Block 2 (J/B 2)
64

4895164

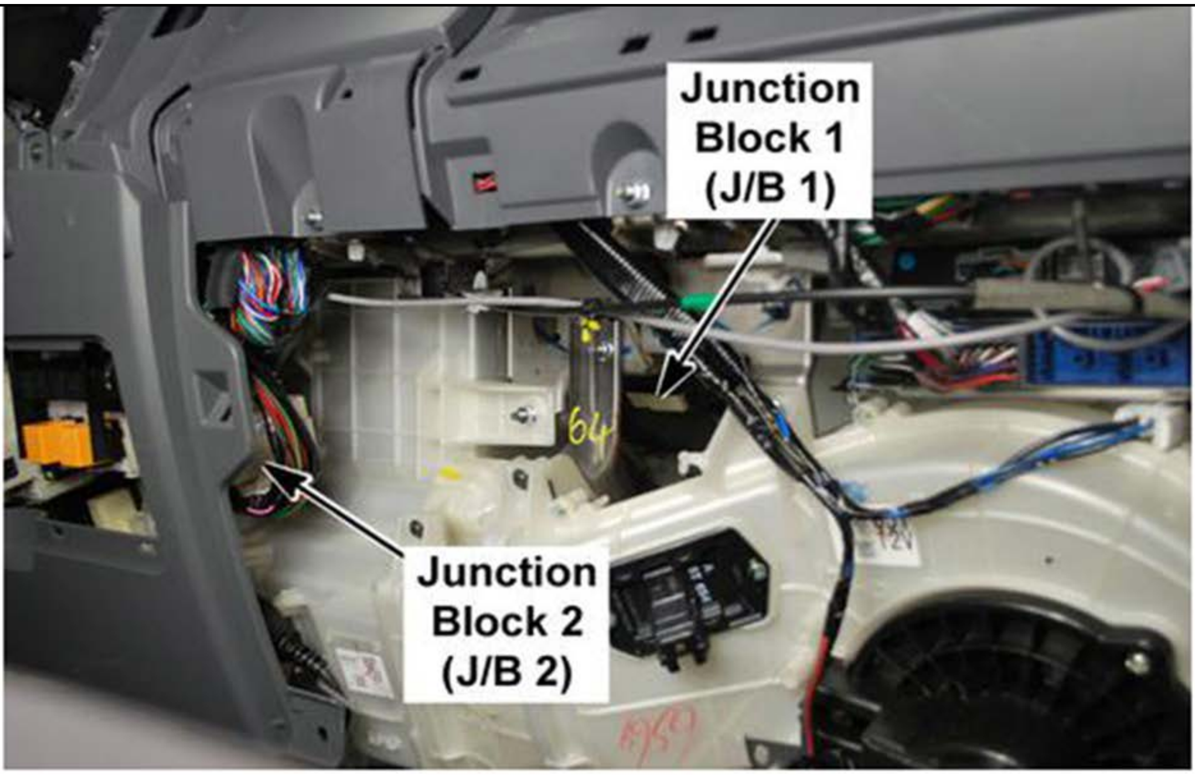
B-143 Junction Block (J/B) 2



4895468

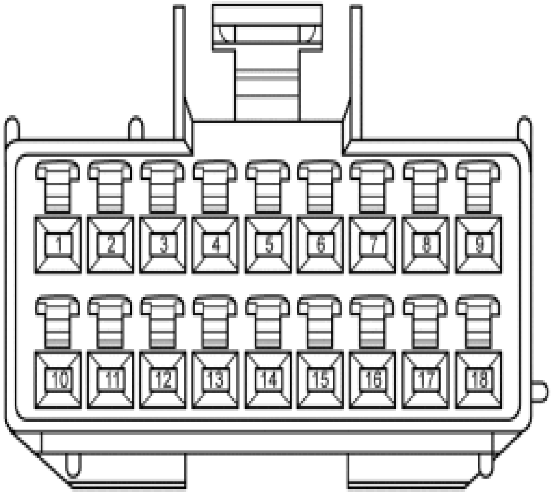
Connector Part Information		- 7383-0486-50 - 18-Way F (RED)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN	VA118B	Battery Voltage from Fuse F-4 from Fuse/Relay Center (Cab) (B-19 pin 2)
2	GRN	VA018B	Battery Voltage from Fuse F-4 to Door Lock Relay
3–4	—	—	Not Used
5	GRN/RED	VA017B	Door Unlock Signal from the Door Lock Relay
6	GRN/RED	VA006B	Door Unlock Signal to the Front Door Lock Motor (LH)
7–9	—	—	Not Used
10	GRN	HC002B	Battery Voltage from Fuse F-4 to the Remote Keyless Entry (RKE) Module
11	GRN/YEL	VA016B	Door Lock Signal from the Door Lock Relay
12	—	—	Not Used
13	GRN/RED	VA008B	Door Unlock Signal to the Front Door Lock Motor (RH)
14	RED/YEL	VA007B	Door Lock Signal to the Front Door Lock Motor (LH)
15	GRN/YEL	VA009B	Door Lock Signal to the Front Door Lock Motor (RH)
16–18	—	—	Not Used

B-131 Behind the HVAC Housing, On the Right of the FUSE/Relay Center (Cab)


Junction Block 1 (J/B 1)
Junction Block 2 (J/B 2)
64

4895164

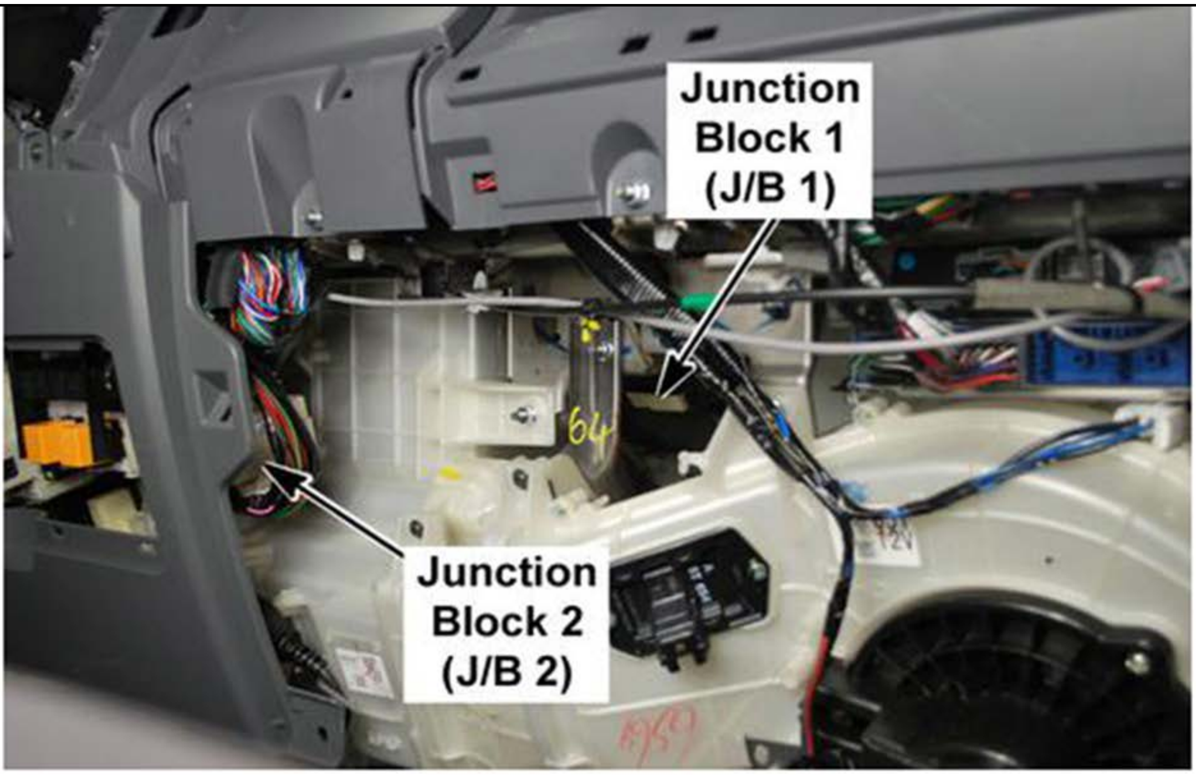
B-144 Junction Block (J/B) 2 Connector End View



4895486

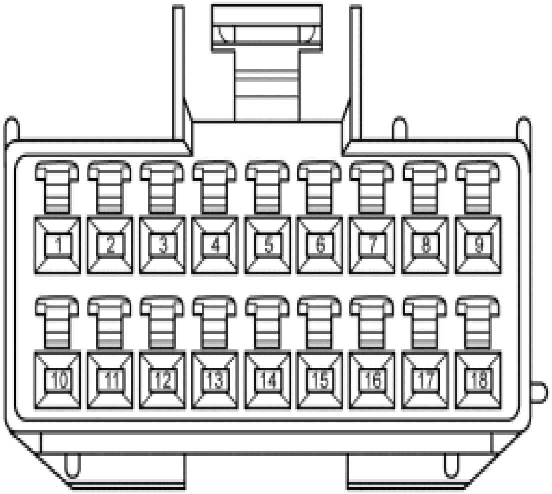
Connector Part Information		• 7383-0487-80 • 18-Way F (BRN)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	YEL	IA041B	X-22 Rear Dome Lamp Relay Coil Control to Rear Dome Lamps Switch 1
2	GRN	CA101B	Switched Output Voltage from X-1 Stop Lamp Relay from Relay
3	RED/GRN	HC005B	Door Unlock Signal to RKE Module
4	BLK	ZZ019B	Ground to B-48 Junction Block (B-53 Ground)
5	BLK	ZZ078B	Ground to Key ON Relay (Coil Ground) (B-53 Ground)
6	BLK	BX023B	Ground to Front Park Lamp (RH) (B-53 Ground)
7	BLK	KU003B	Ground to Mimamori Module (B-53 Ground)
8	BLK	KU004B	Ground to Health Report RS232 Connector (B-53 Ground)
9	RED	IA001B	Battery Voltage from Fuse F-3 to Fuse/Relay Center (Cab) (B-22 pin 7)
10	YEL	IA040B	Rear Dome Lamp Switch ON Indicator Control
11	GRN	CA001B	Switched Output Voltage from X-1 Stop Lamp Relay to Rear Combination Lamps
12	GRN/WHT	VA101B	Door Lock Signal to Diode Door Lock
13	—	—	Not Used
14	BLK	BX025B	Ground to Side Marker Lamp (RH) (B-53 Ground)
15	BLK	JX006B	Ground to Front Turn Signal Lamp (B-53 Ground)
16	BLK	HX006B	Ground to Condenser Fan Relay (B-53 Ground)
17	BLK	VX006B	Ground Door Lock Relay (B-53 Ground)
18	RED	IA004B	Battery Voltage from Fuse F-3 to Dome Lamp Switch

B-131 Behind the HVAC Housing, On the Right of the FUSE/Relay Center (Cab)


Junction Block 1 (J/B 1)
Junction Block 2 (J/B 2)

4895164

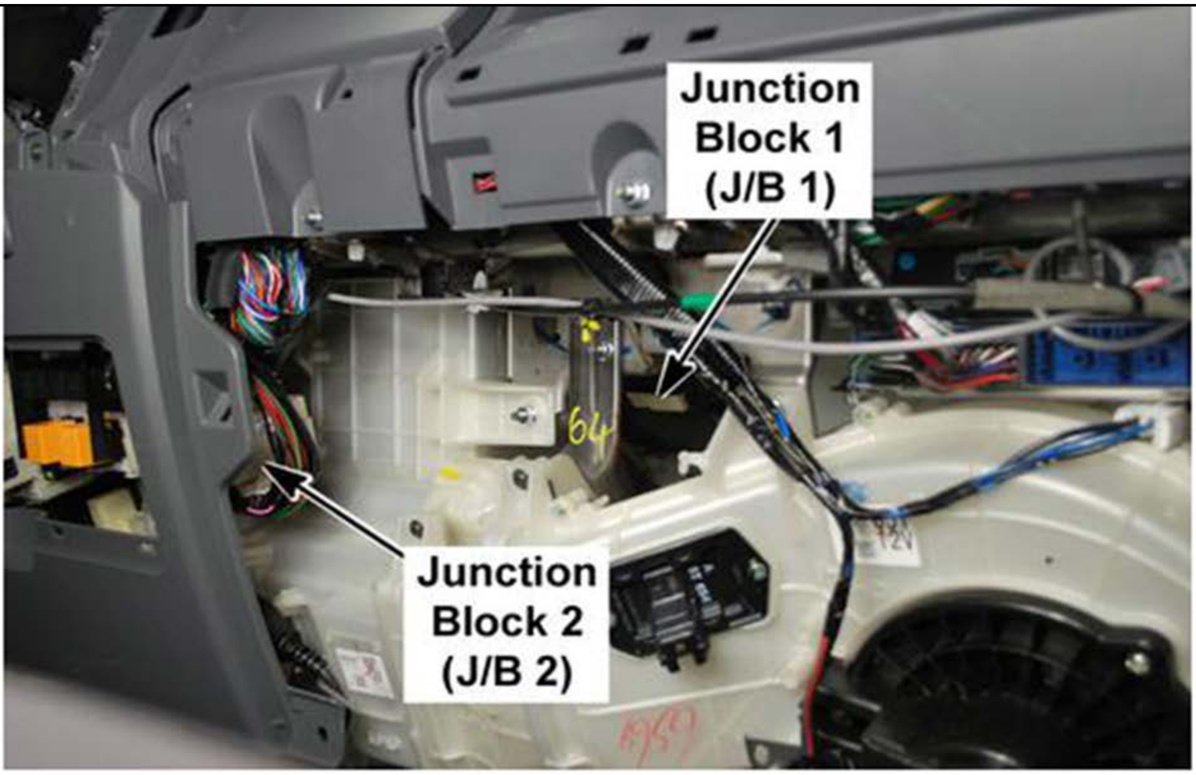
B-145 Junction Block (J/B) 2



4895505

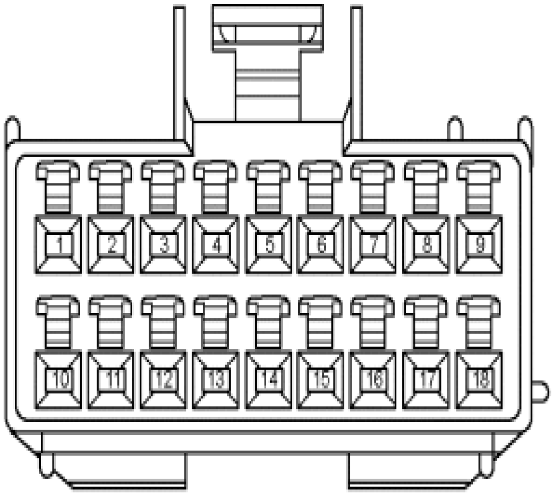
Connector Part Information		• 7383-0488-60 • 18-Way F (GRN)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/WHT	VA020B	Door Lock Signal to Door Lock Switch
2	BLK/ORN	IC014B	Ignition Voltage from Fuse F-20 to J/B 1 (B-132 pin 11)
3	GRN/WHT	VA014B	Door Lock Signal to Door Lock Relay
4	GRY/BLU	IC178B	Ignition Voltage from Fuse F-20 to Cruise Main Switch
5	BLK	VX004B	Ground to Door Lock Relay (B-53 Ground)
6	BLK	FX005B	Ground to Intermittent Wiper Relay
7	BLK	JX003B	Ground to Side Turn Signal Lamp (RH)
8	BLK	OX005B	Ground to Transmission Control Module (TCM)
9	BLK	OX006B	Ground to Transmission Control Module (TCM)
10	RED/GRN	VA005B	Door Unlock Signal to Door Lock Relay
11	—	—	Not Used
12	GRY	HC003B	Door Switch Signal to RKE Module
13	RED/YEL	OA190B	Ignition Voltage from Fuse F-24 to Shift Lever
14	—	—	Not Used
15	BLK	BX037B	Ground to L-22 Splice Pack
16	BLK	WX101B	Ground to Mirror Heater Relay (LH) Coil
17–18	—	—	Not Used

B-131 Behind the HVAC Housing, On the Right of the FUSE/Relay Center (Cab)


Junction Block 1 (J/B 1)
Junction Block 2 (J/B 2)

4895164

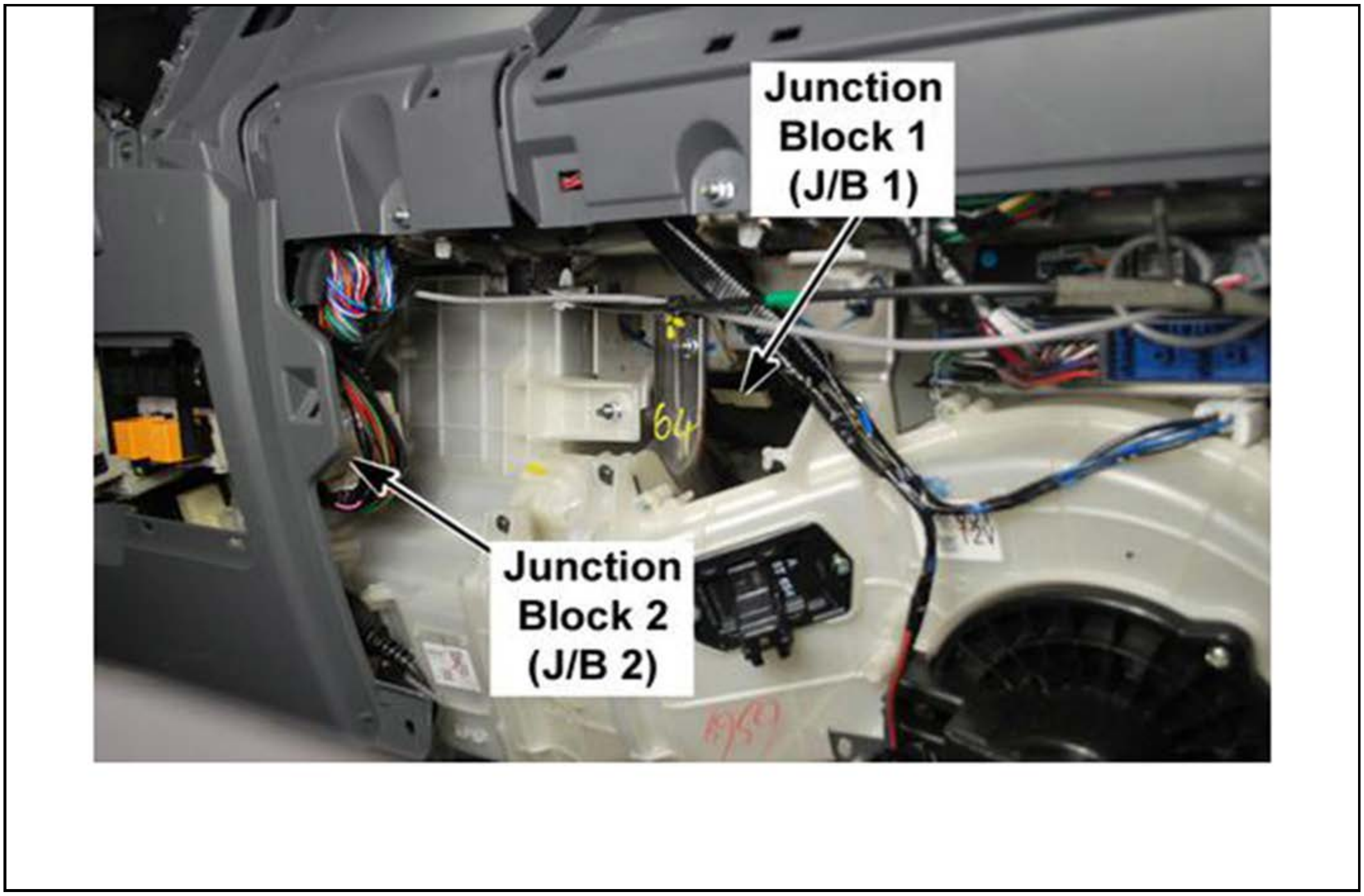
B-146 Junction Block (J/B) 2 Connector End View



4895527

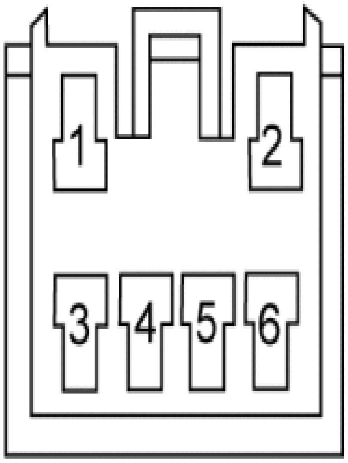
Connector Part Information		• 7383-0489-50 • 18-Way F (ORN)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/GRN	VA015B	Door Unlock Signal to Door Lock Switch
2	—	—	Not Used
3	GRY/BLU	IA140B	Door Switch Signal to Dome Lamp
4	RED/YEL	SA103B	Ignition Voltage from Fuse F-24 from Fuse/Relay Center (Cab) (B-22 pin 2)
5	RED/YEL	SA003B	Ignition Voltage from Fuse F-24 to J/B 1 (B-135 pin 6)
6–7	—	—	Not Used
8	BLK	WX106B	Ground to Mirror Heater Relay (RH) Coil
9	—	—	Not Used
10	GRY/BLU	IC179B	Ignition Voltage from Fuse F-20 to Combination Switch
11	—	—	Not Used
12	GRY	IA014B	Dome Switch Signal from N-21 Splice Pack
13	GRN/WHT	HC007B	Door Lock Signal to RKE Module
14	YEL	IA019B	X-22 Rear Dome Lamp Relay Coil Control from Relay
15	—	—	Not Used
16	GRN	OA092B	Switched Output Voltage from X-1 Stop Lamp Relay to Shift Lever
17	RED	RA001B	Battery Voltage from Fuse F-3 to Radio
18	RED	GG013B	Battery Voltage from Fuse F-3 to B-452 Splice Pack

B-131 Behind the HVAC Housing, On the Right of the FUSE/Relay Center (Cab)


Junction Block 1 (J/B 1)
Junction Block 2 (J/B 2)

4895164

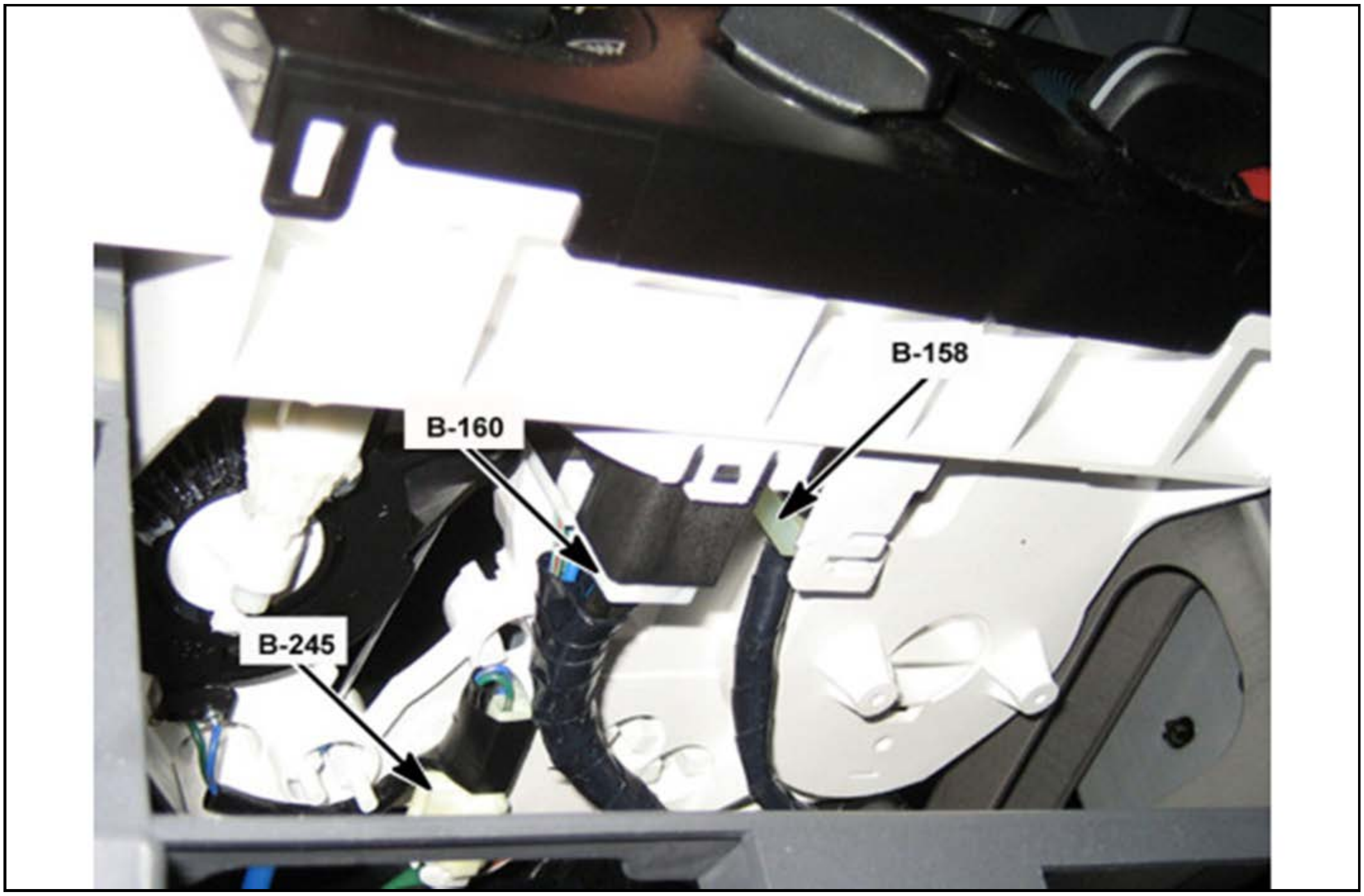
B-158 A/C Switch Connector End View



4895541

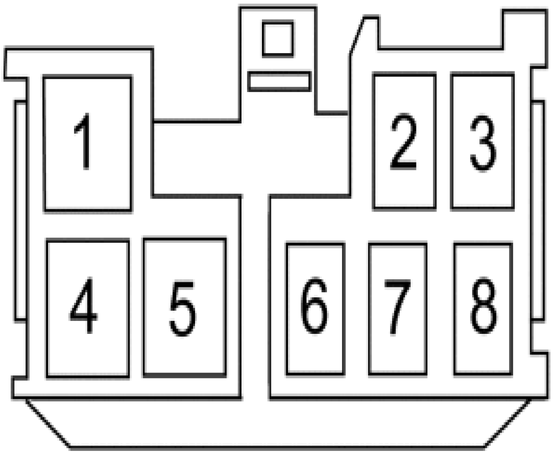
Connector Part Information		• 4F0630-000 • 6-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1–2	—	—	Not Used
3	BRN/WHT	HA063B	Defroster Switch Signal
4	BRN/RED	HA007B	Electronic Thermostat Signal
5	BLK	HX001B	Ground to B-600 Splice Pack (B-51 Ground)
6	BLK/RED	HA008B	Fuse F-30 Voltage (Fan Control Switch ON)

In the Center of the I/P, Behind the HVAC Controls



4895570

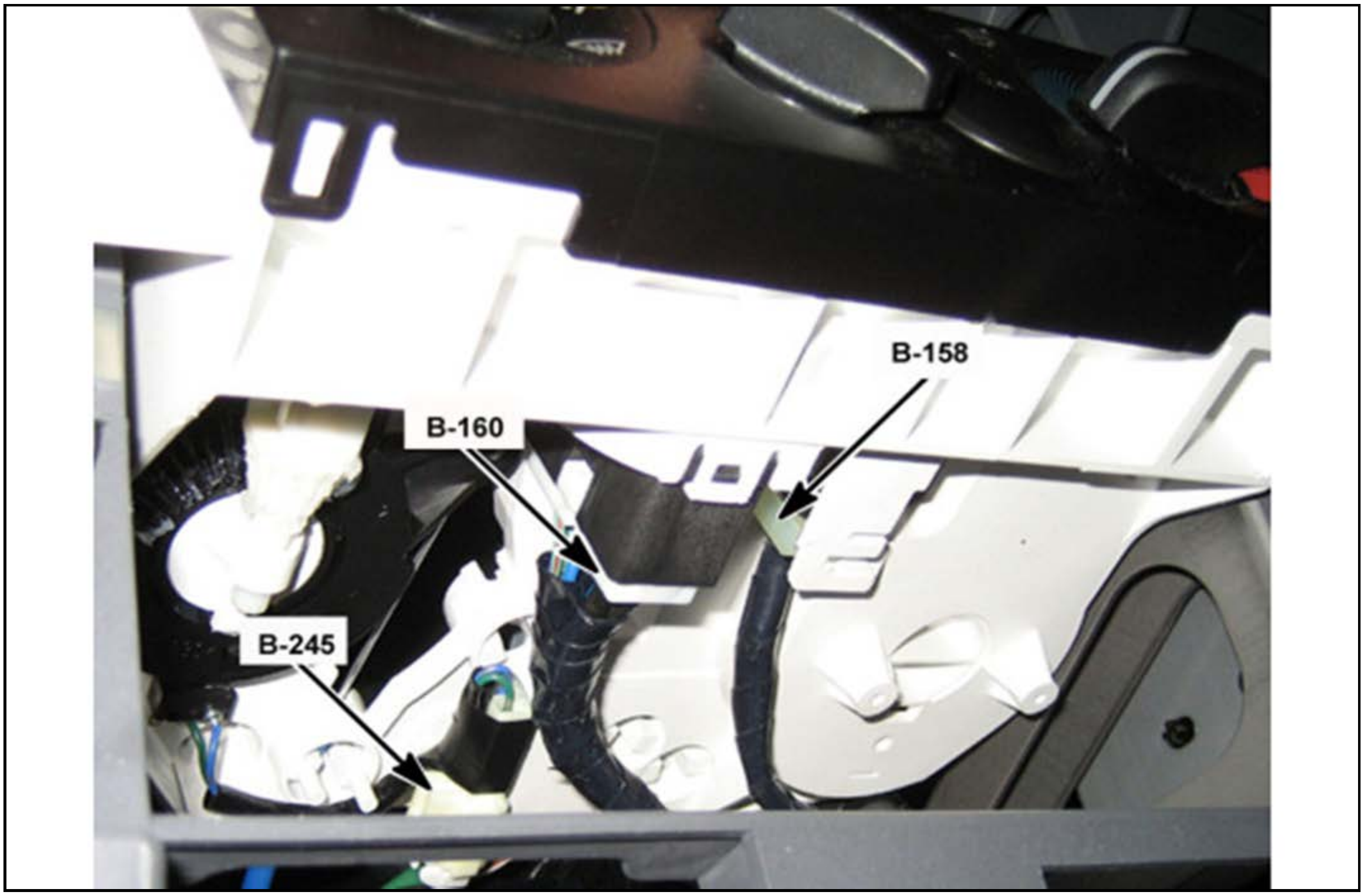
B-160 HVAC Control Panel



4895582

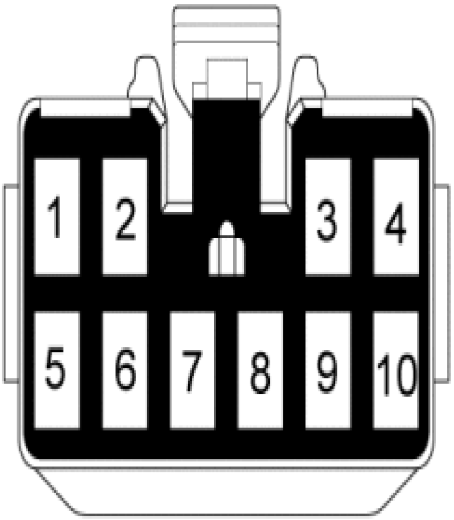
Connector Part Information		- 4F0880-000 - 8-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	HX003B	Ground to Splice 18 (B-55 and B-221)
2	LT GRN/BLK	HX002B	Dimming Control to Dimming Control Switch
3	LT GRN/RED	HA011B	Fuse F-28 Voltage (Headlight Switch ON), Dimming Control
4	BLK/BLU	HA001B	Blower Motor High Control
5	BLU/BLK	HA002B	Blower Motor M2 Control
6	BLU	HA003B	Blower Motor M1 Control
7	—	—	Not Used
8	VIO/YEL	HA006B	Blower Relay Control

In the Center of the I/P, Behind the HVAC Controls



4895570

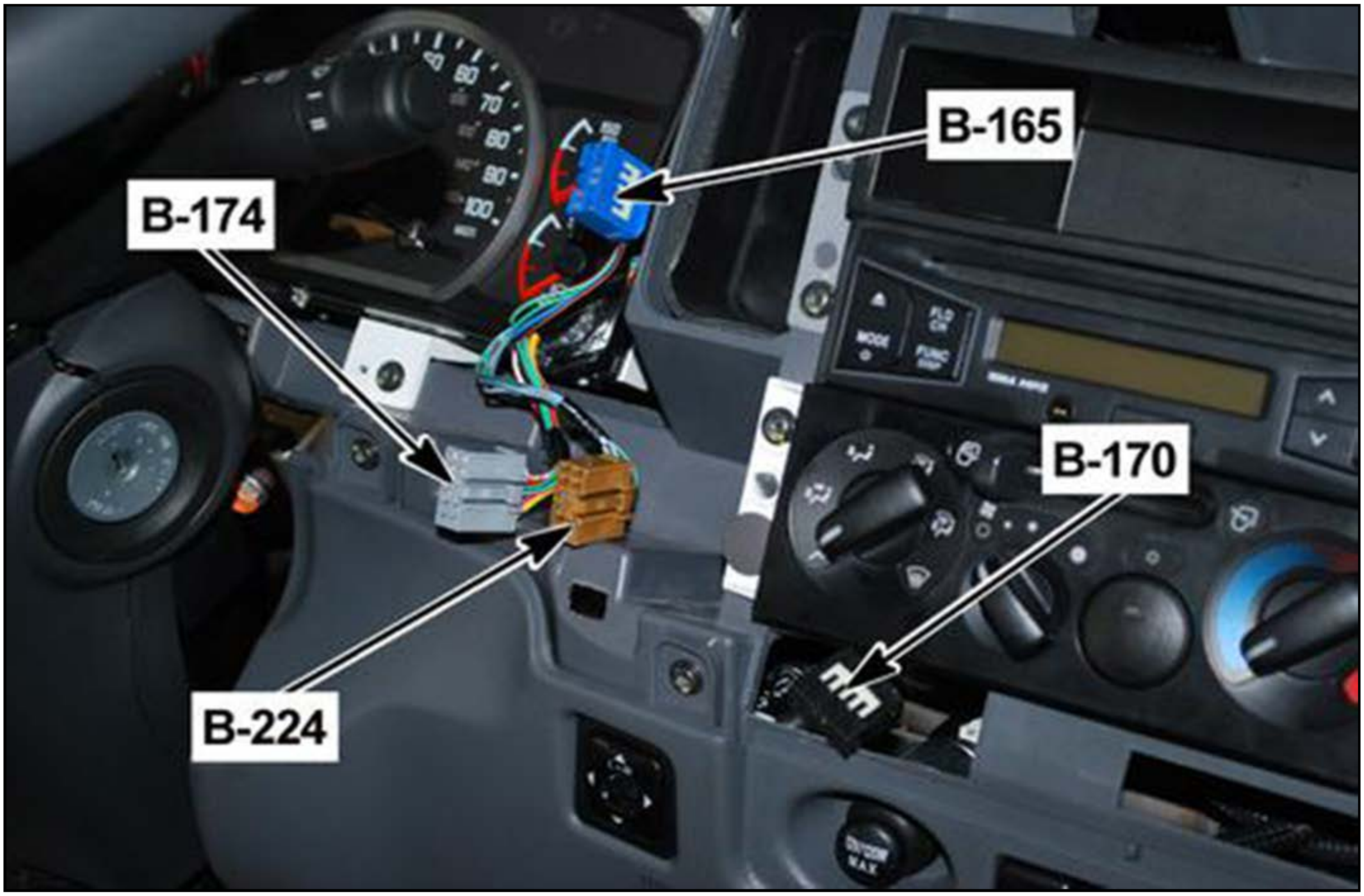
B-165 DPF Regeneration Switch



4895586

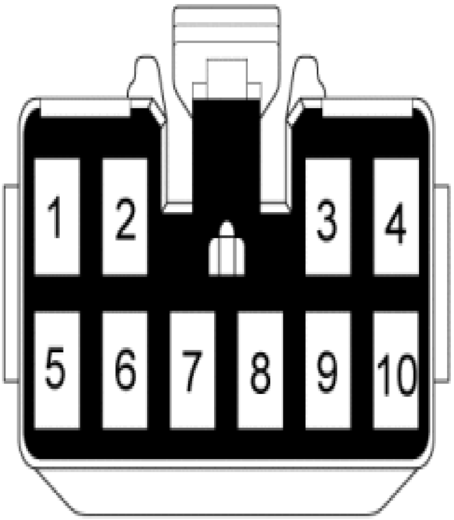
Connector Part Information		- 7383-1100-90 - 10-Way F (BLU)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK/ORN	IC141B	Ignition Voltage from Fuse F-20
2	BLU/WHT	IC140B	Switch Signal to ECM
3–6	—	—	Not Used
7	LT GRN/BLK	BA038B	Dimming Control to Dimming Control Switch
8	LT GRN/RED	BA033B	Fuse F-28 Voltage (Headlight Switch ON), Dimming Control
9–10	—	—	Not Used

In the Center of the I/P On the Left Side of the HVAC


B-165
B-174
B-170
B-224

4895589

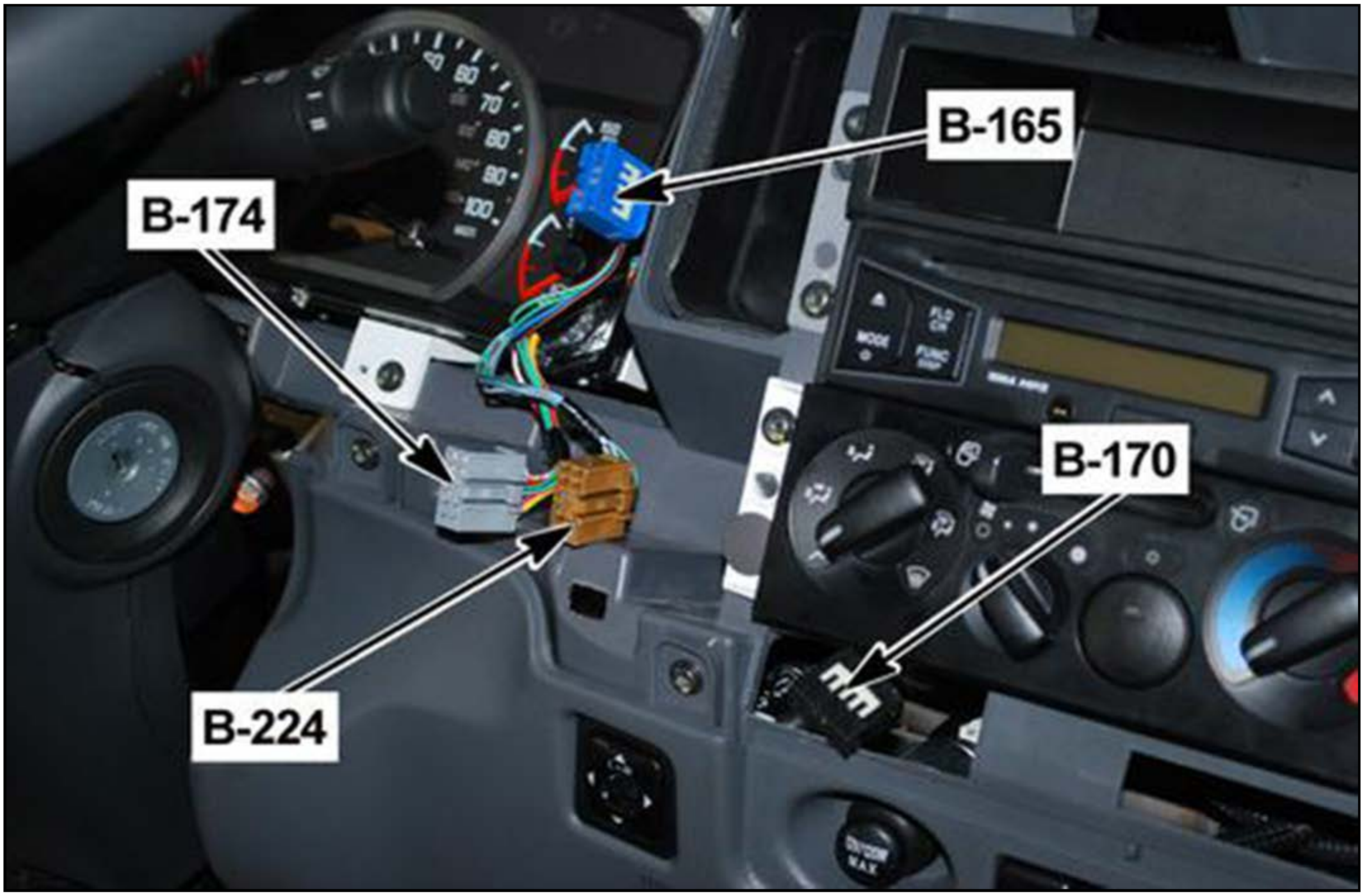
B-170 Hazard Switch



4895586

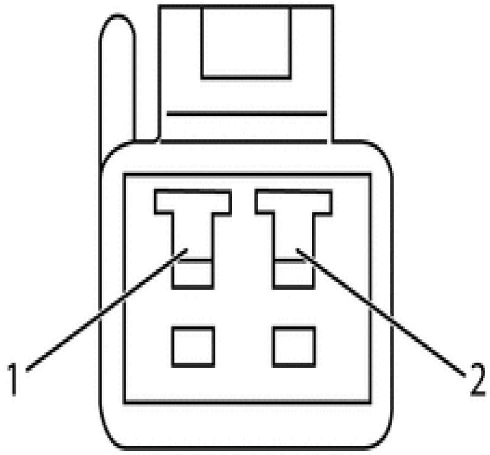
Connector Part Information		• 7383-1100-30 • 10-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1–2	—	—	Not Used
3	RED/BLU	JA018B	Hazard Switch Signal to J/B 1 (B-132 pin 12)
4	BLK	JX002B	Ground to B-377 Splice Pack (B-51 Ground)
5–6	—	—	Not Used
7	LT GRN/BLK	BA043B	Dimming Control to Dimming Control Switch
8	LT GRN/RED	BA019B	Fuse F-28 Voltage (Headlight Switch ON), Dimming Control
9–10	—	—	Not Used

In the Center of the I/P On the Left Side of the HVAC


B-165
B-174
B-170
B-224

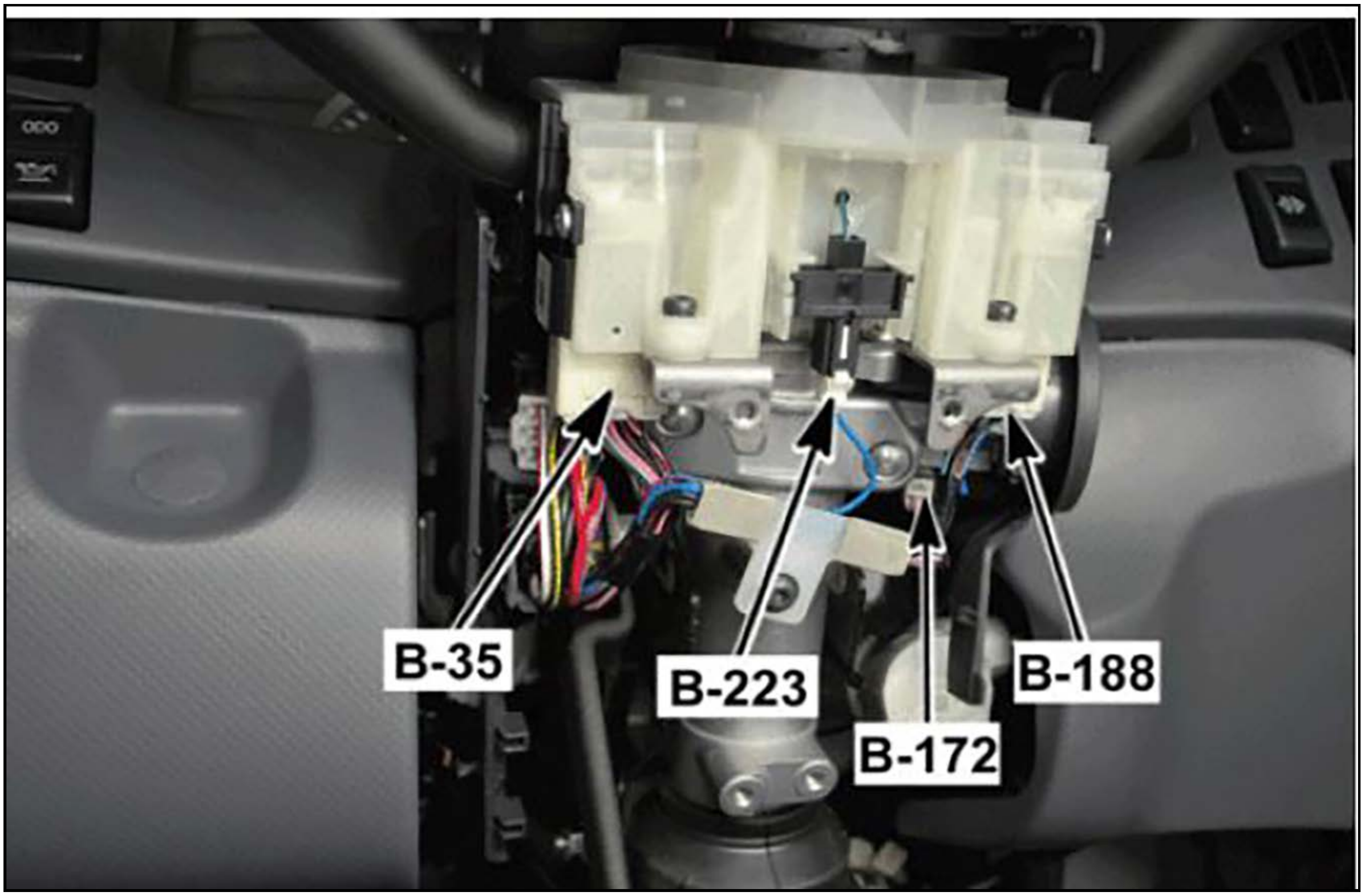
4895589

B-172 Key Reminder Switch

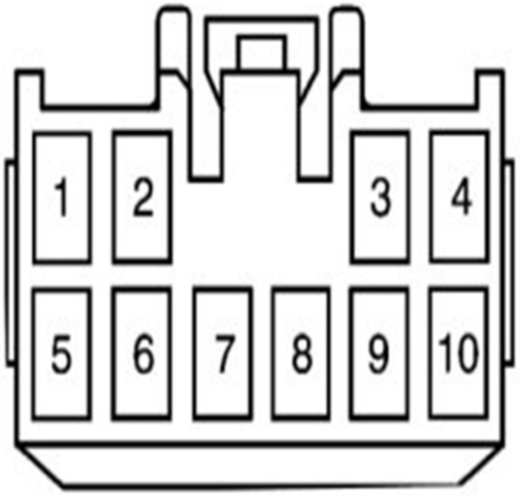


Connector Part Information	- 7383-5845 - 2-Way F (WHT)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	FY001B	Ground to B-377 Splice Pack (B-51 Ground)
2	PNK/BLU	FB005B	Key Reminder Switch Signal to RKE Module

B-172 In the Steering Column, Under the Steering Column Trim Panels


B-35
B-223
B-172
B-188
4895830

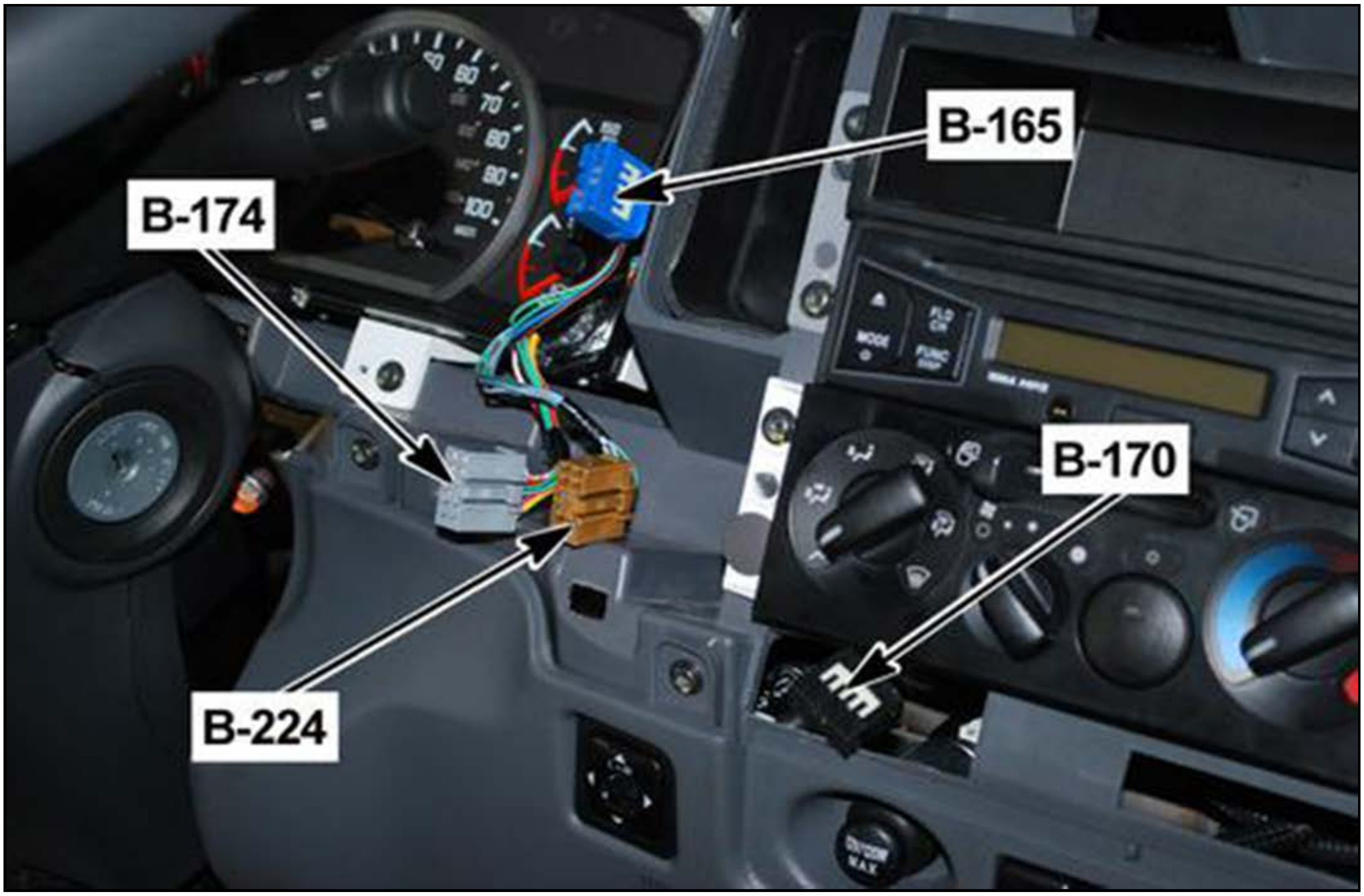
B-174 Heated Mirror Switch



4895836

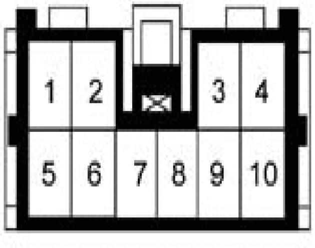
Connector Part Information		• 7383-1100-40 • 10-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT/RED	WA015B	Fuse F-16 Supply Voltage from Fuse/Relay Center (Cab)
2	RED/YEL	WA021B	Mirror Heater (RH) Control
3	WHT/RED	WA004B	Fuse F-16 Supply Voltage from Fuse/Relay Center (Cab)
4	YEL	WA104B	Mirror Heater (LH) Control
5	BLK	WX007B	Ground to B-602 Splice Pack (B-51 Ground)
6	RED/YEL	WA018B	ON Indicator Supply Voltage
7	LT GRN/BLK	BA006B	Dimming Control to Dimming Control Switch
8	LT GRN/RED	BA012B	Fuse F-28 Voltage (Headlight Switch ON), Dimming Control
9–10	—	—	Not Used

In the Center of the I/P, On the Left Side of the HVAC Controls


B-165
B-174
B-170
B-224

4895589

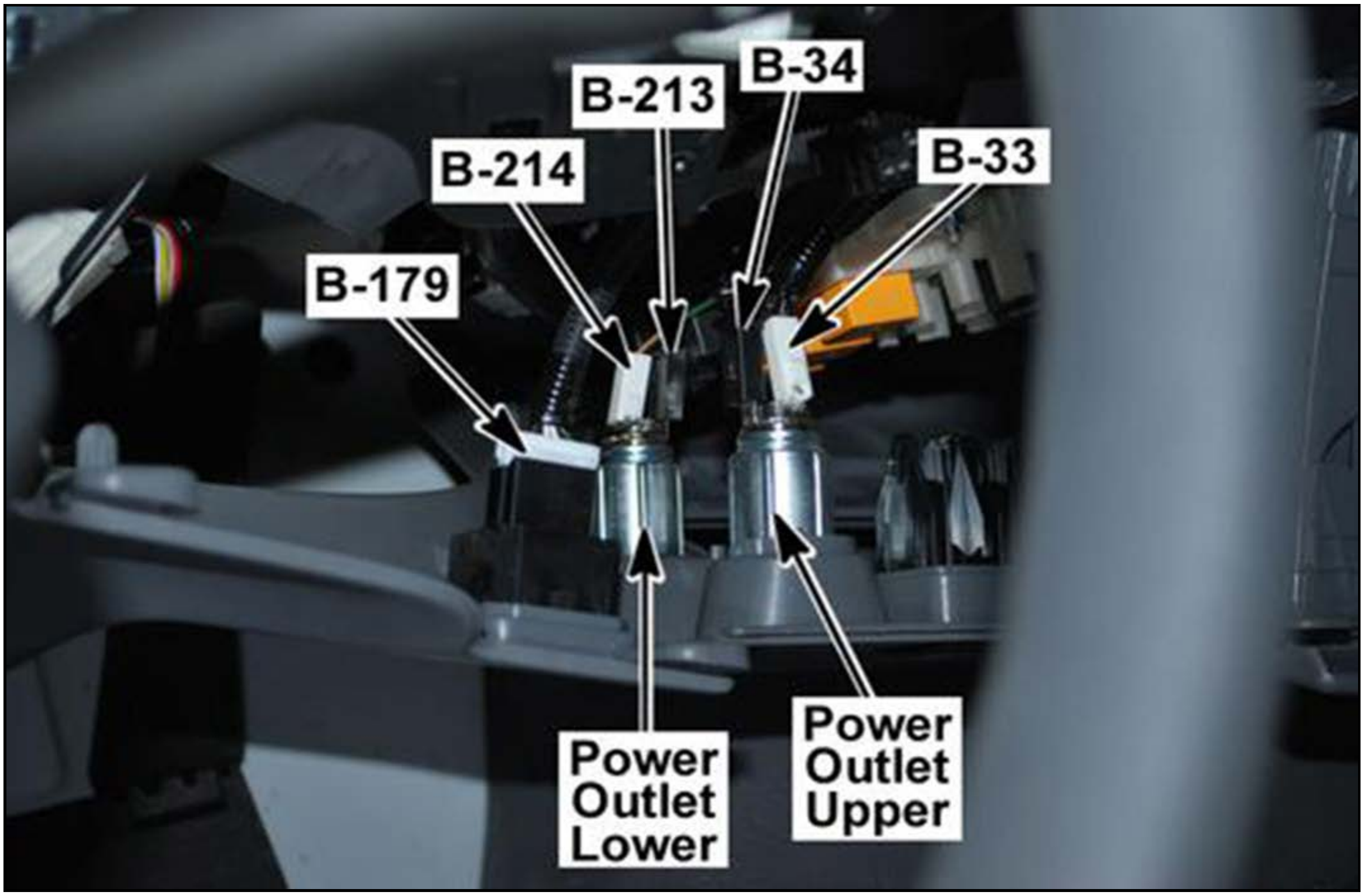
B-179 Power Mirror Switch



4895849

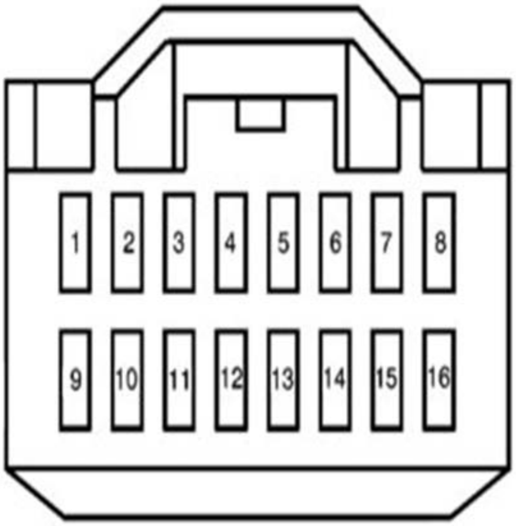
Connector Part Information		• 7323-8307 • 10-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK/WHT	WA218B	Common Control for Mirror (LH) and Mirror (RH)
2–3	—	—	Not Used
4	RED/YEL	WA007B	Ignition Voltage from Fuse F-23
5	BLK/GRN	WA011B	Left/Right Control Mirror (RH)
6	—	—	Not Used
7	WHT/BLK	WA009B	Up/Down Control Mirror (RH)
8	WHT/BLK	WA008B	Up/Down Control Mirror (LH)
9	BLK	WX003B	Ground to B-49 Junction Block (B-52 and B-53 Ground)
10	BLK/GRN	WA010B	Left/Right Control Mirror (LH)

B-179 Center of the IP Left of the Fuse/Relay Center (Cab)


B-34
B-213
B-214
B-33
B-179
Power Outlet Lower
Power Outlet Upper

4895851

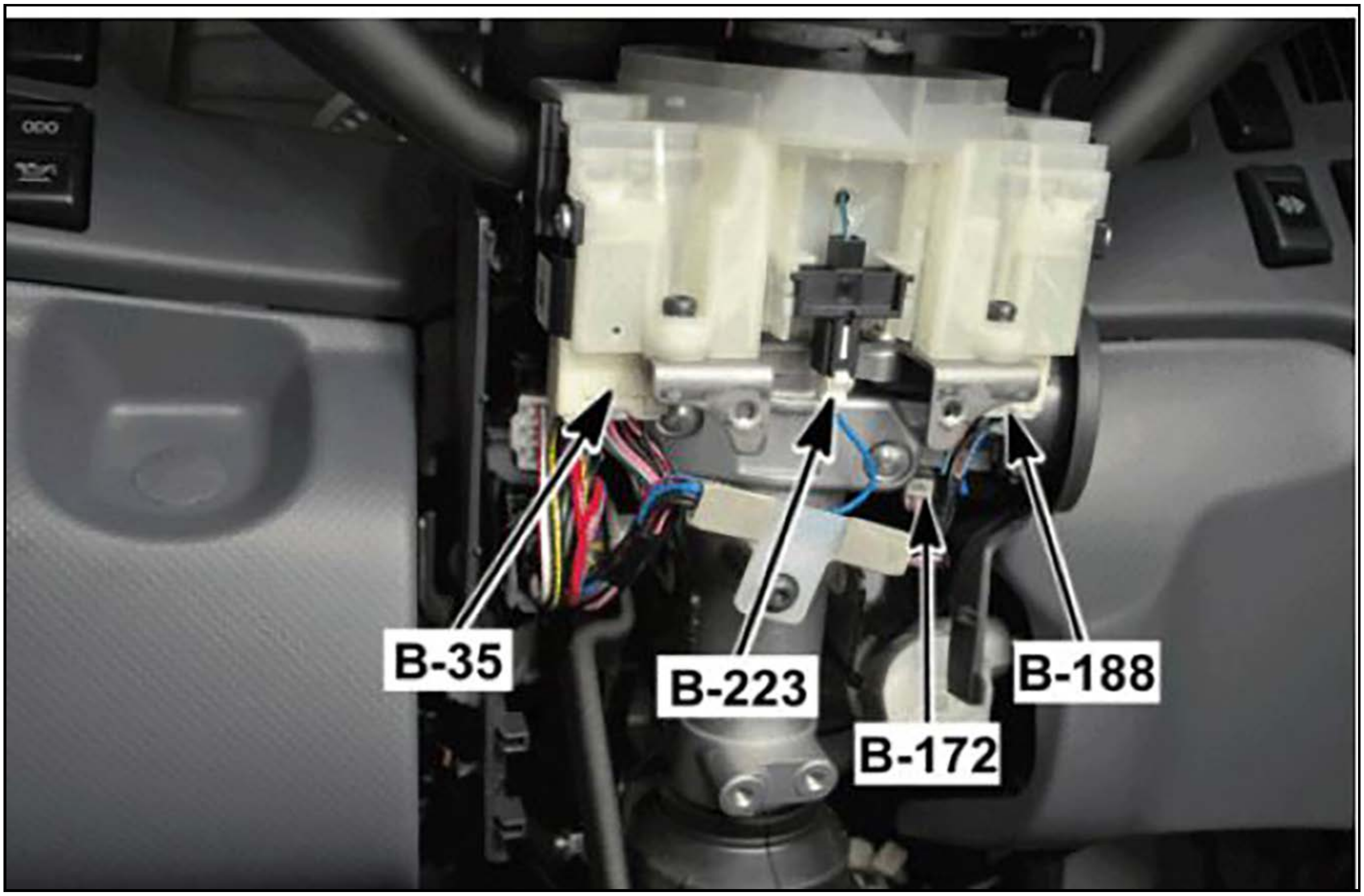
B-188 Wiper/Exhaust Brake Switch



4895853

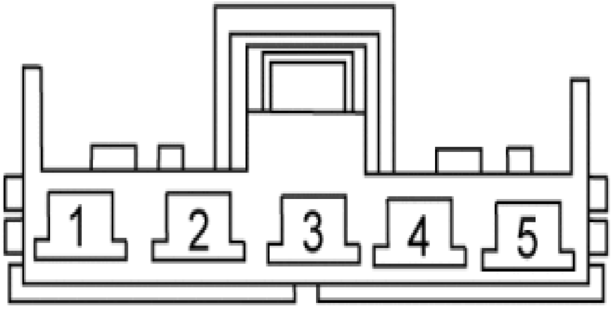
Connector Part Information		• 1318221-1 • 16-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1–8	—	—	Not Used
9	BLK	FX002B	Ground to B-600 Splice Pack (B-51 Ground)
10	BLU/RED	FA020B	Low Speed/Park Control
11	—	—	Not Used
12	BLK/GRN	FA007B	Wiper High Low Relay Coil Control
13	BLK/ORN	IC045B	Ignition Voltage from Fuse F-20
14	BLK/BLU	FA008B	Intermittent Relay Control
15	LT GRN/RED	IC044B	Exhaust Brake Switch Signal Control to the ECM
16	BLU/BLK	FA011B	Washer Motor Control

B-188 In the Steering Column, Under the Steering Column Trim Panels



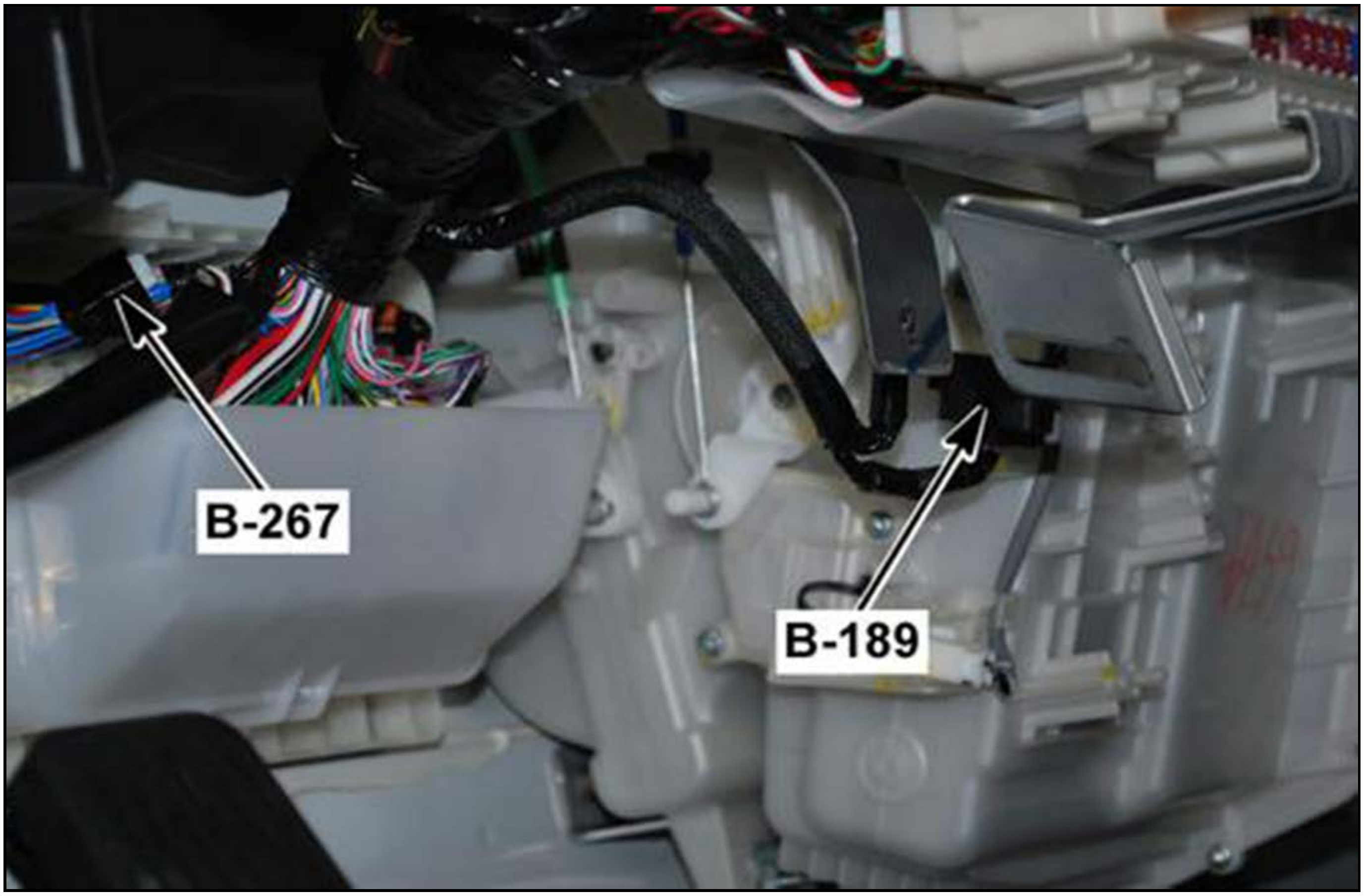
4895830

B-189 Electronic Thermostat



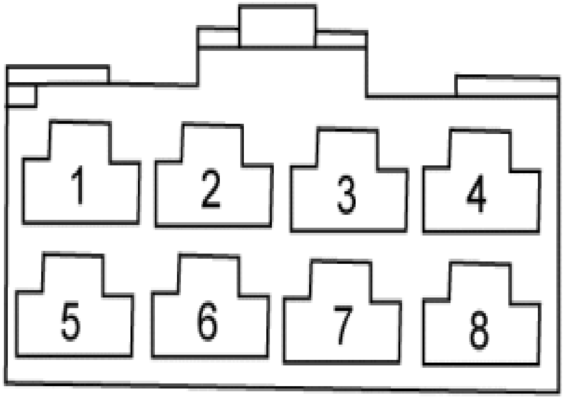
Connector Part Information		- 7383-6321-30 - 5-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1–2	—	—	Not Used
3	GRY	HA010B	Compressor Clutch Relay Coil Control
4	BRN/RED	HA007B	A/C Switch Signal
5	BLK	HX007B	Ground to B-600 Splice Pack (B-51 Ground)

Behind the Center of the IP On the Left Side of the HVAC Housing



4895868

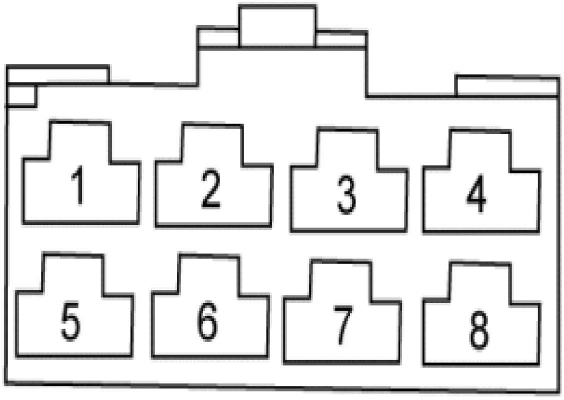
B-210 Intermittent Relay



4895885

Connector Part Information		• 7323-2881 • 8-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	FX005B	Ground to J/B 2 (B-145 pin 6)(B-51 and B-53 Ground)
2	BLU/BLK	FA009B	Washer Motor Signal
3	RED/BLK	FA016B	Ignition Voltage from Fuse F-18, Fuse/Relay Center (Cab)
4	—	—	Not Used
5	BLU/ORN	FA022B	Park Position Signal (OFF Input)
6	BLK/BLU	FA008B	Intermittent Position Signal
7	BLU/RED	FA021B	Run/Park Input
8	—	—	Not Used

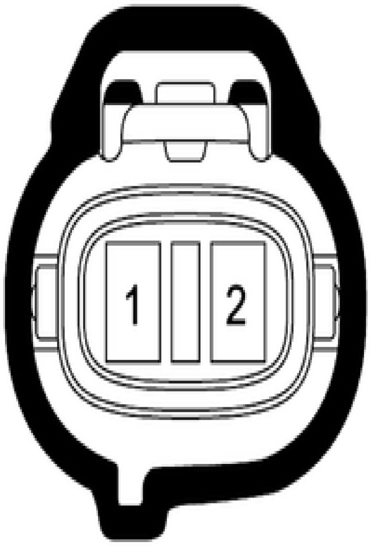
Right Side of the IP to the Right of the Blower Motor (Trim Panel is Removed)



4895885

Connector Part Information		• 7323-2881 • 8-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	FX005B	Ground to J/B 2 (B-145 pin 6)(B-51 and B-53 Ground)
2	BLU/BLK	FA009B	Washer Motor Signal
3	RED/BLK	FA016B	Ignition Voltage from Fuse F-18, Fuse/Relay Center (Cab)
4	—	—	Not Used
5	BLU/ORN	FA022B	Park Position Signal (OFF Input)
6	BLK/BLU	FA008B	Intermittent Position Signal
7	BLU/RED	FA021B	Run/Park Input
8	—	—	Not Used

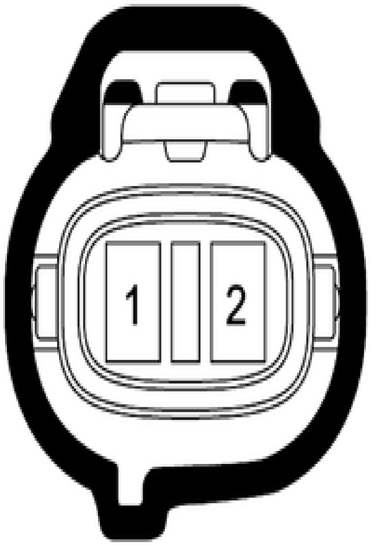
B-211 Stop Lamp Switch 1



4895931

Connector Part Information		• 6189-0239 • 2-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/WHT	CA003B	Stop Lamp Relay (Coil Control)
2	BLK	CX001B	Ground to B-602 Splice Pack (B-51 Ground)

Front of the Vehicle, Under the Hood

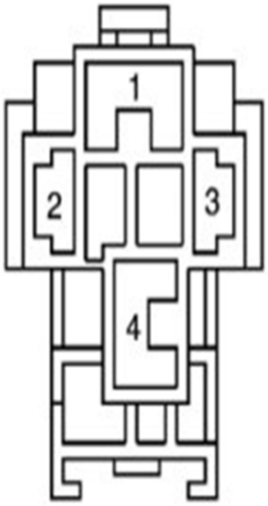


4895931

Connector Part Information		• 6189-0239 • 2-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/WHT	CA003B	Stop Lamp Relay (Coil Control)

Connector Part Information		• 6189-0239 • 2-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
2	BLK	CX001B	Ground to B-602 Splice Pack (B-51 Ground)

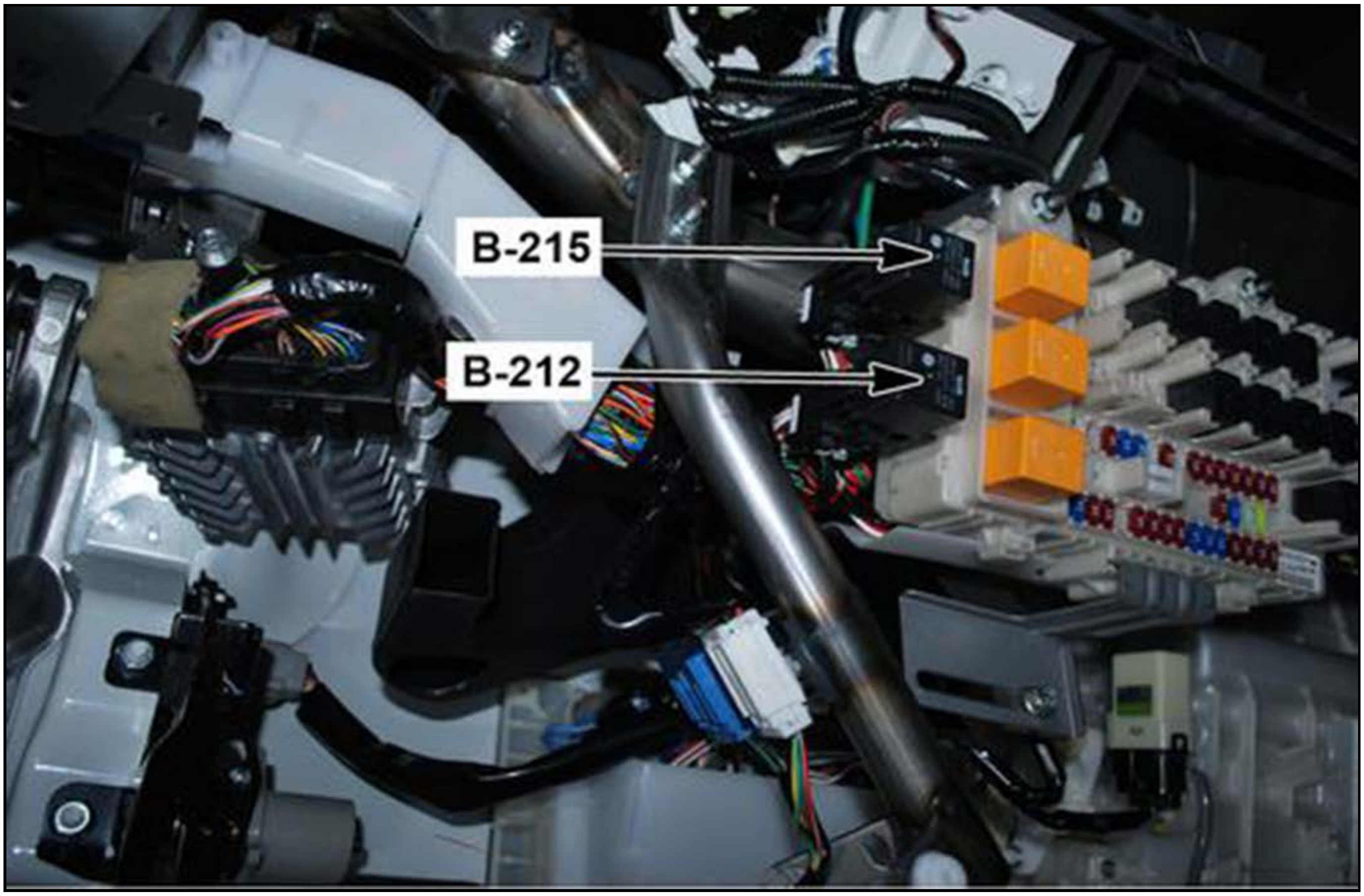
B-212 Power ACC Relay



4895962

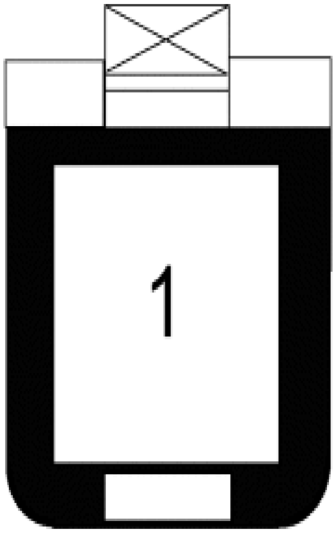
Connector Part Information		• 7323-6146-30 • 4-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/BLK	PA010B	Battery Voltage from Fuse FL-3 (Input Voltage)
2	RED/YEL	SA041B	Ignition Voltage from Fuse F-24 (Coil Feed)
3	BLK	SX011B	Ground (Coil Control) to B-377 Splice Pack (B- 51 Ground)
4	BLK/RED	SA011B	Relay/Fuse Center (Cab) Fuses A-2 and A-3 Control Voltage (Switched Output Voltage)

In the Center of the IP Left Side of the Fuse Relay Center (Cab)



4895966

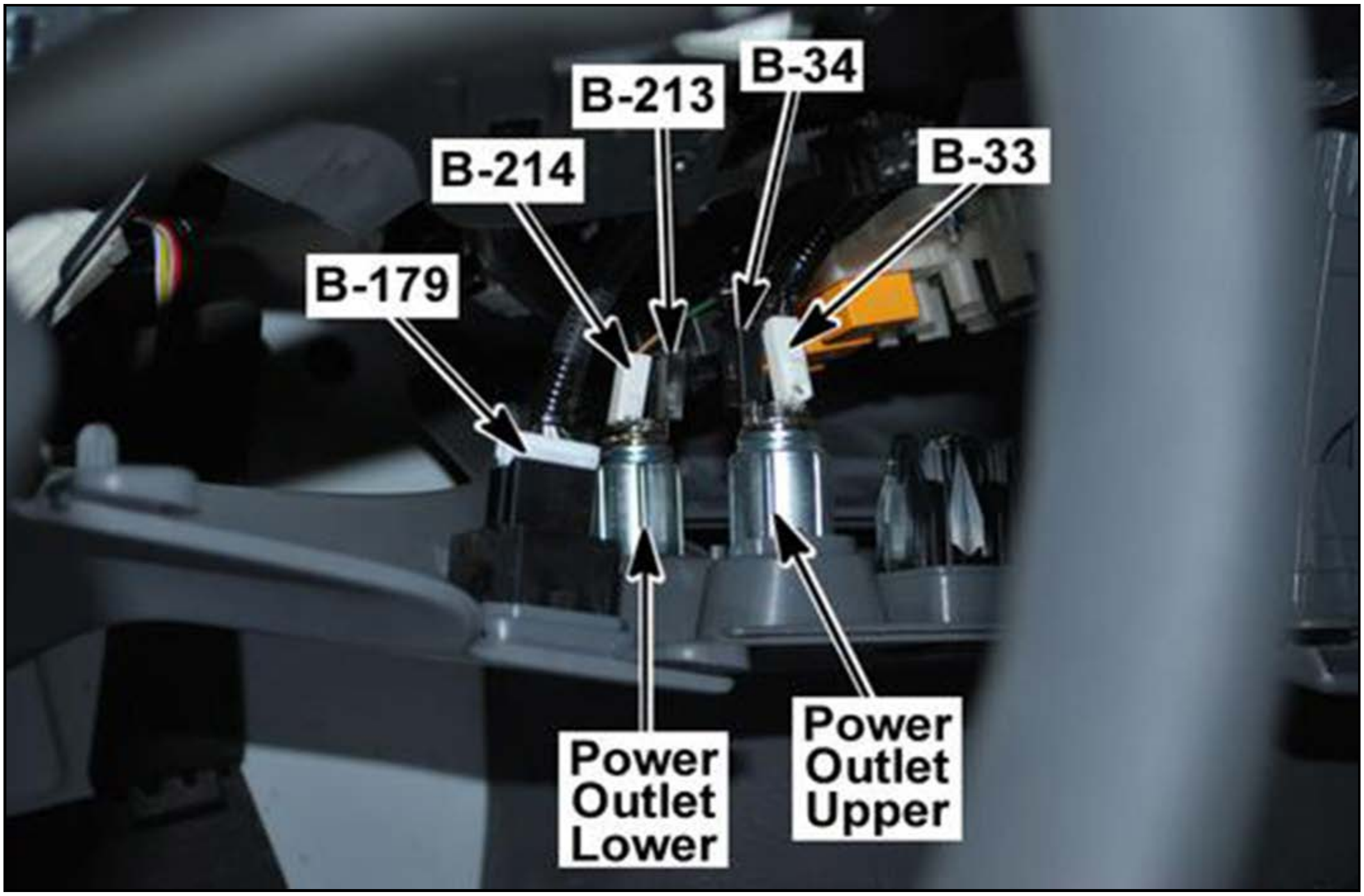
B213 Power Outlet Lower



4895974

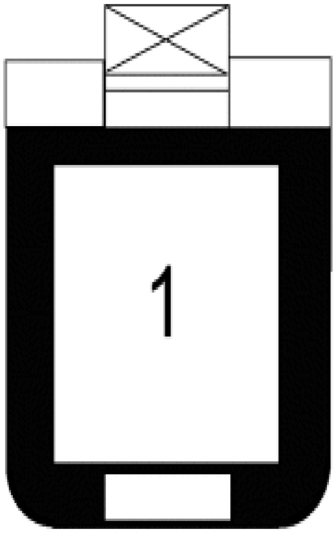
Connector Part Information		- 174090-2 - 1-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	SX005B	Ground to B-379 Splice Pack (B-60 and B-51 Ground)

Center of the IP Left of the Fuse Relay Center (Cab)


B-213
B-34
B-214
B-33
B-179
Power Outlet Lower
Power Outlet Upper

4895986

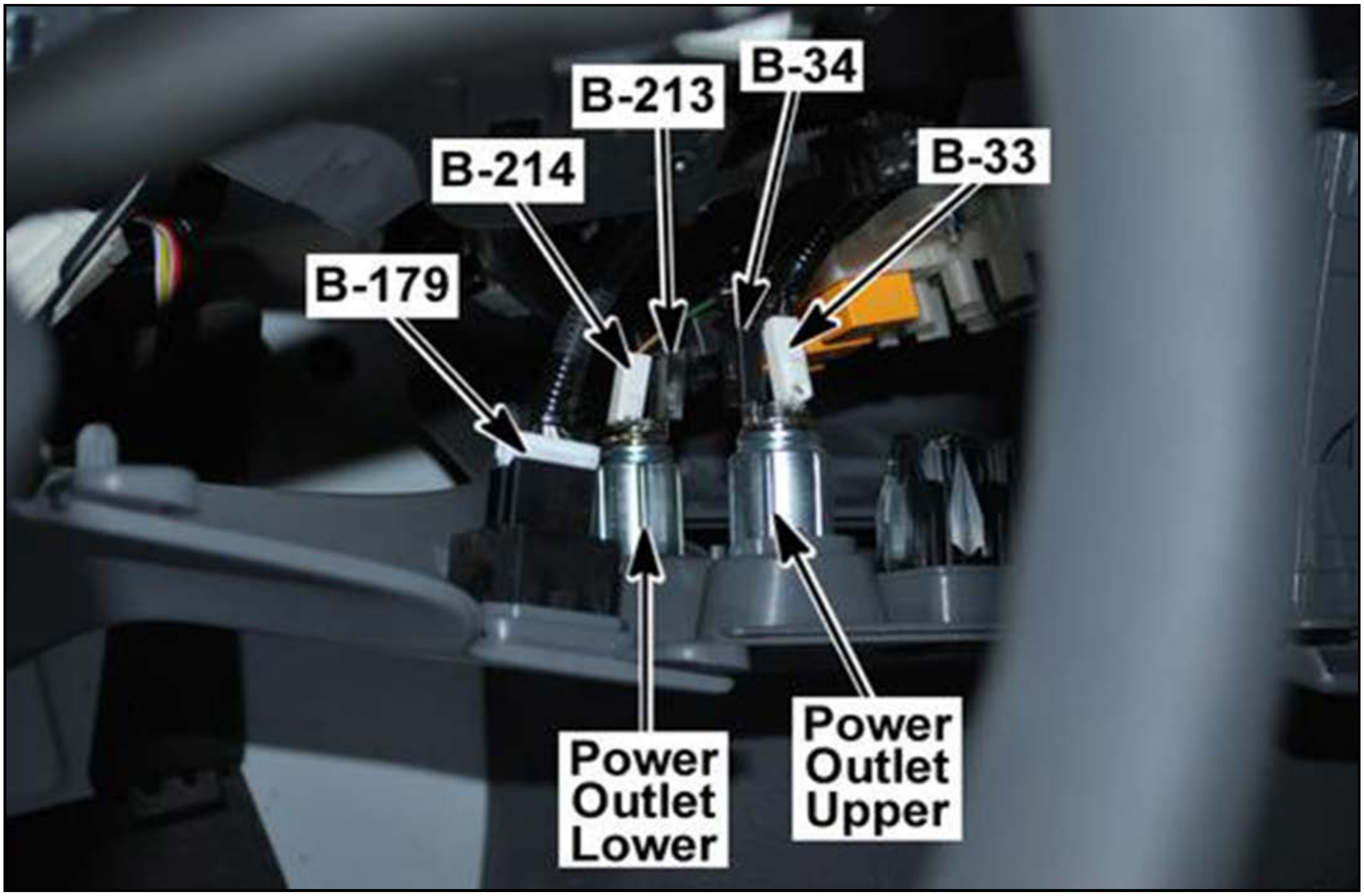
B-214 Power Outlet Lower



4895974

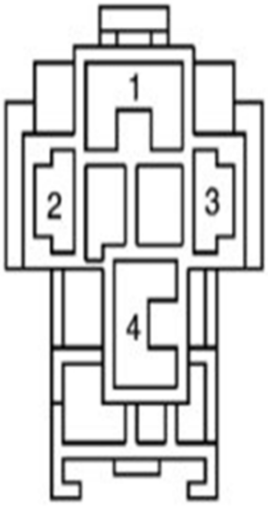
Connector Part Information		- 7323-8410 - 1-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/ORN	SA005B	Ignition Voltage from Fuse A-2

Center of the IP Left of the Fuse Relay Center (Cab)


B-34
B-213
B-33
B-214
B-179
Power Outlet Lower
Power Outlet Upper

4895986

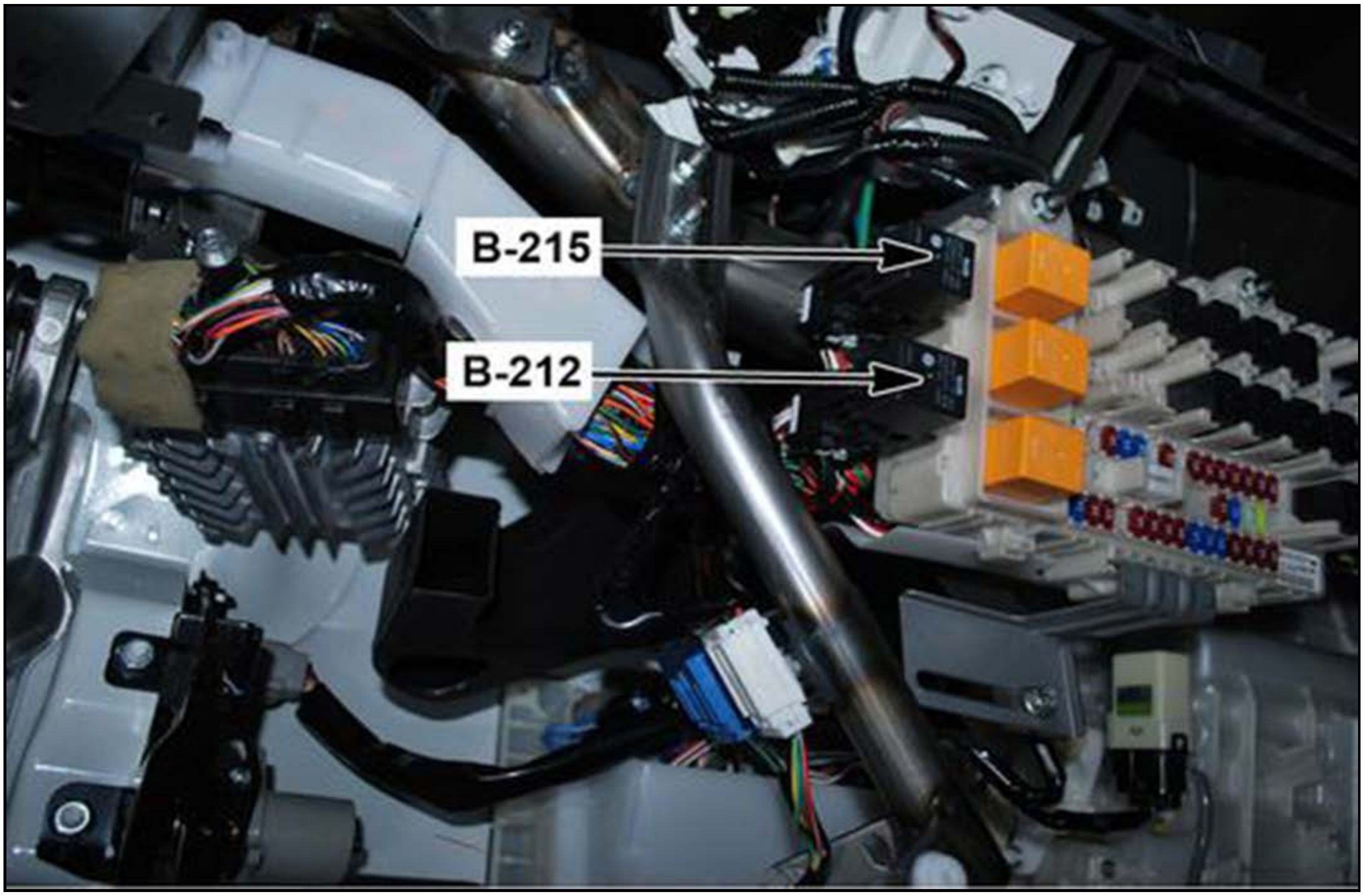
B-215 Blower Relay



4896020

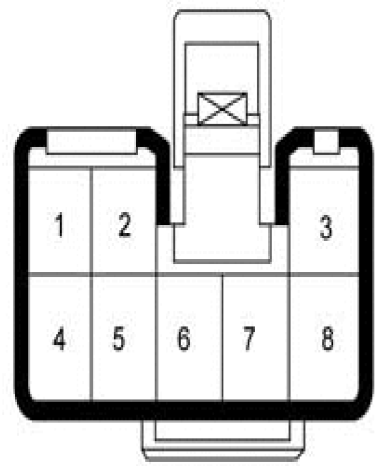
Connector Part Information	- 73236-6146-30 - 4-Way F (BLK)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT/BLK	PA006B	Battery Voltage from Fuse FL-7 Supply Voltage (87 Input Voltage)
2	WHT/RED	HA027B	Fuse F-17 Supply Voltage (85 Coil Feed)
3	VIO/YEL	HA006B	Relay Control (86 Coil Control)
4	BRN	HA021B	Voltage to Splice 9 (Blower Motor and Fuse F- 30) (30 Switched Output Voltage)

In the Center of the IP Left Side of the Fuse Relay Center (Cab)



4895966

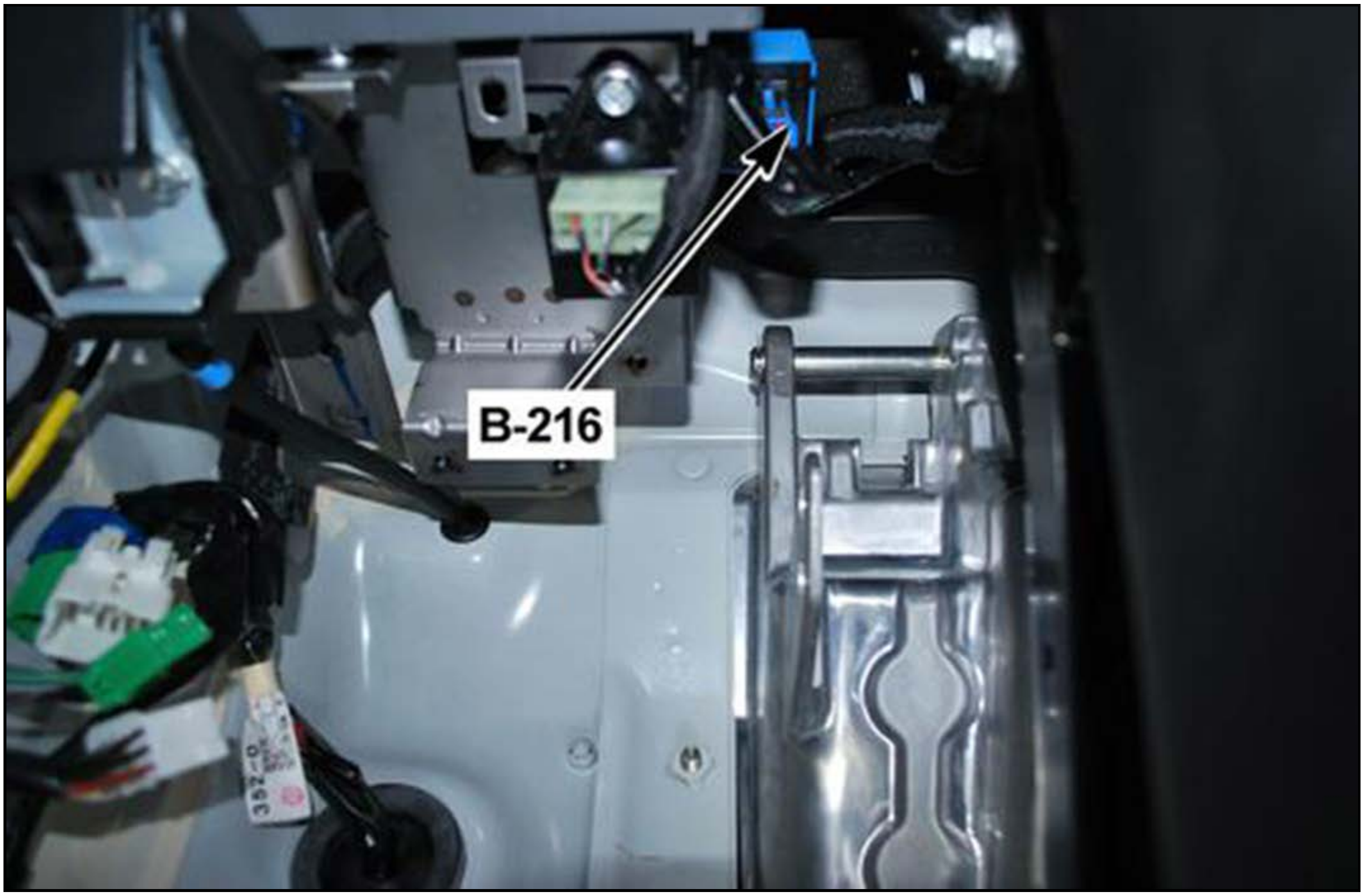
B-216 Flasher Module



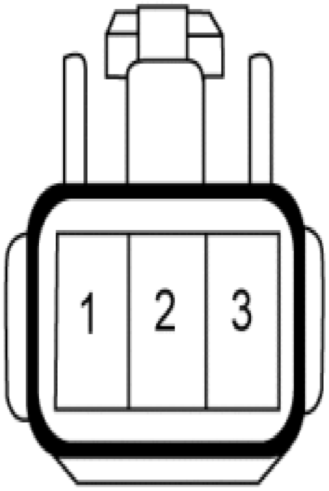
4896022

Connector Part Information		• 7383-1080-90 • 8-Way F (BLU)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/YEL	JA016B	Ignition Voltage from Fuse F-21
2	GRN/WHT	JA009B	Right Turn Signal Supply Voltage
3	GRN/BLK	JA008B	Left Turn Signal Supply Voltage
4	RED	JA001B	Battery Voltage from Fuse F-26
5	RED/BLK	JA003B	Left Turn Signal Switch Signal
6	RED/WHT	JA002B	Right Turn Signal Switch Signal
7	BLK	JX007B	Ground to B-377 Splice Pack (B-51 Ground)
8	RED/BLU	JA005B	Hazard Switch Signal

Under the Left Side of the IP Left of the Steering Column. Next to Connector B-249



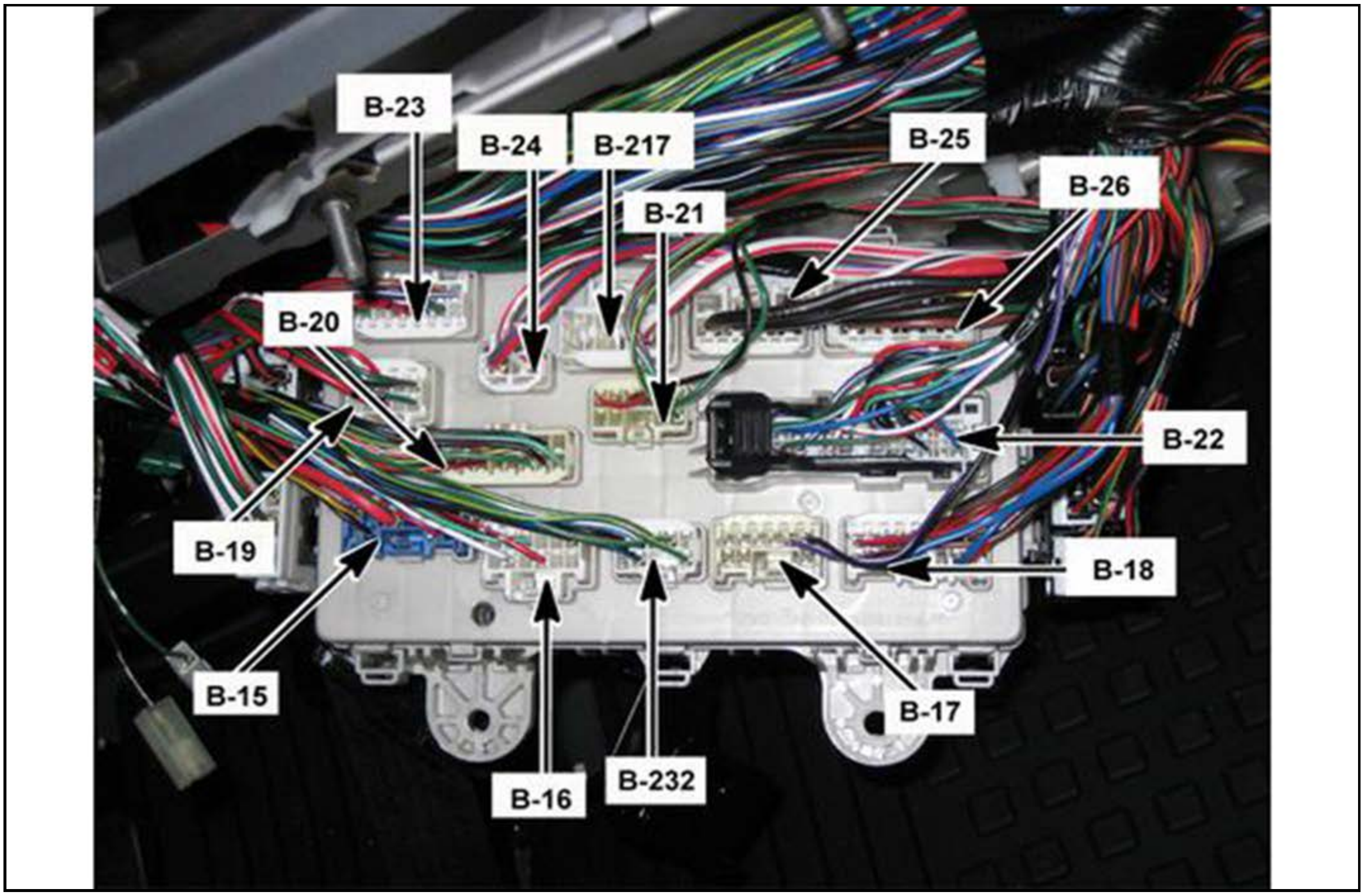
B-217 Fuse/Relay Center (Cab)



4896027

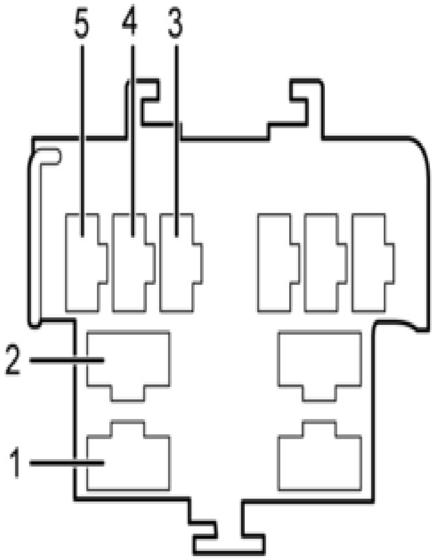
Connector Part Information		- 7383-3033 - 3-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT/RED	AA042B	Battery Voltage from Fuse FL-8
2–3	—	—	Not Used

Behind the Center of the IP


B-23
B-24
B-217
B-21
B-25
B-26
B-20
B-22
B-19
B-18
B-15
B-17
B-16
B-232

4896030

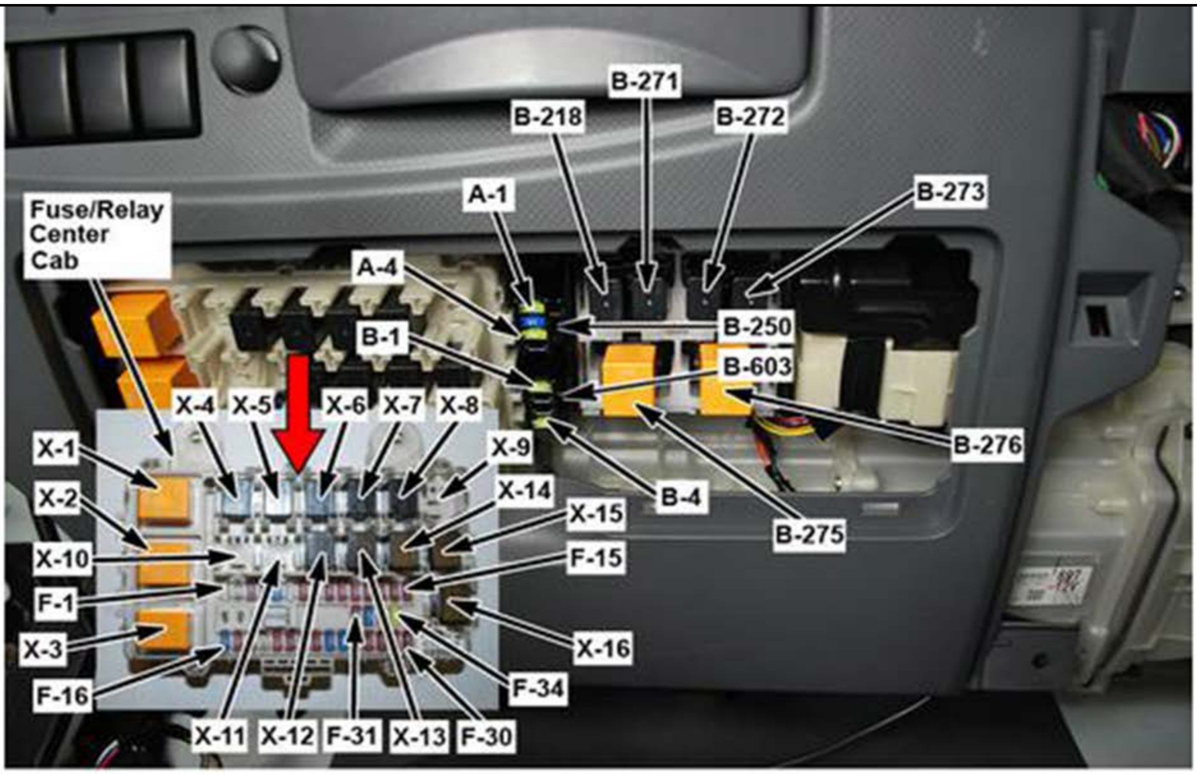
B-218 Condenser Fan Relay



4896040

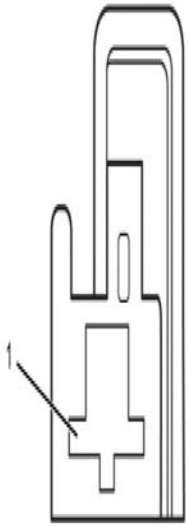
Connector Part Information	• 7354-5262 • 10-Way F (BLK)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	PNK	QA001B	Battery Voltage from Fuse F-37 (Input Voltage)
2	BLU/BLK	QA003B	Voltage to Condenser Fan (Switched Outlet Voltage)
3	BLU	HA054B	Switched Output Voltage from X-20 Compressor Clutch Relay (Coil Feed)
4	—	—	Not Used
5	BLK	HX006B	Ground (Coil Control) to J/B 2 (B-144 pin 16) (B-53 Ground)

Behind the Center of the IP Right of the Fuse Relay Center (Cab)


B-271
B-218
B-272
B-273
Fuse/Relay Center Cab
A-1
A-4
B-250
B-1
B-603
X-4
X-5
X-6
X-7
X-8
X-1
B-276
X-9
X-2
X-14
B-4
X-15
B-275
X-10
F-15
F-1
X-16
X-3
F-34
F-16
X-11
X-12
F-31
X-13
F-30

4896045

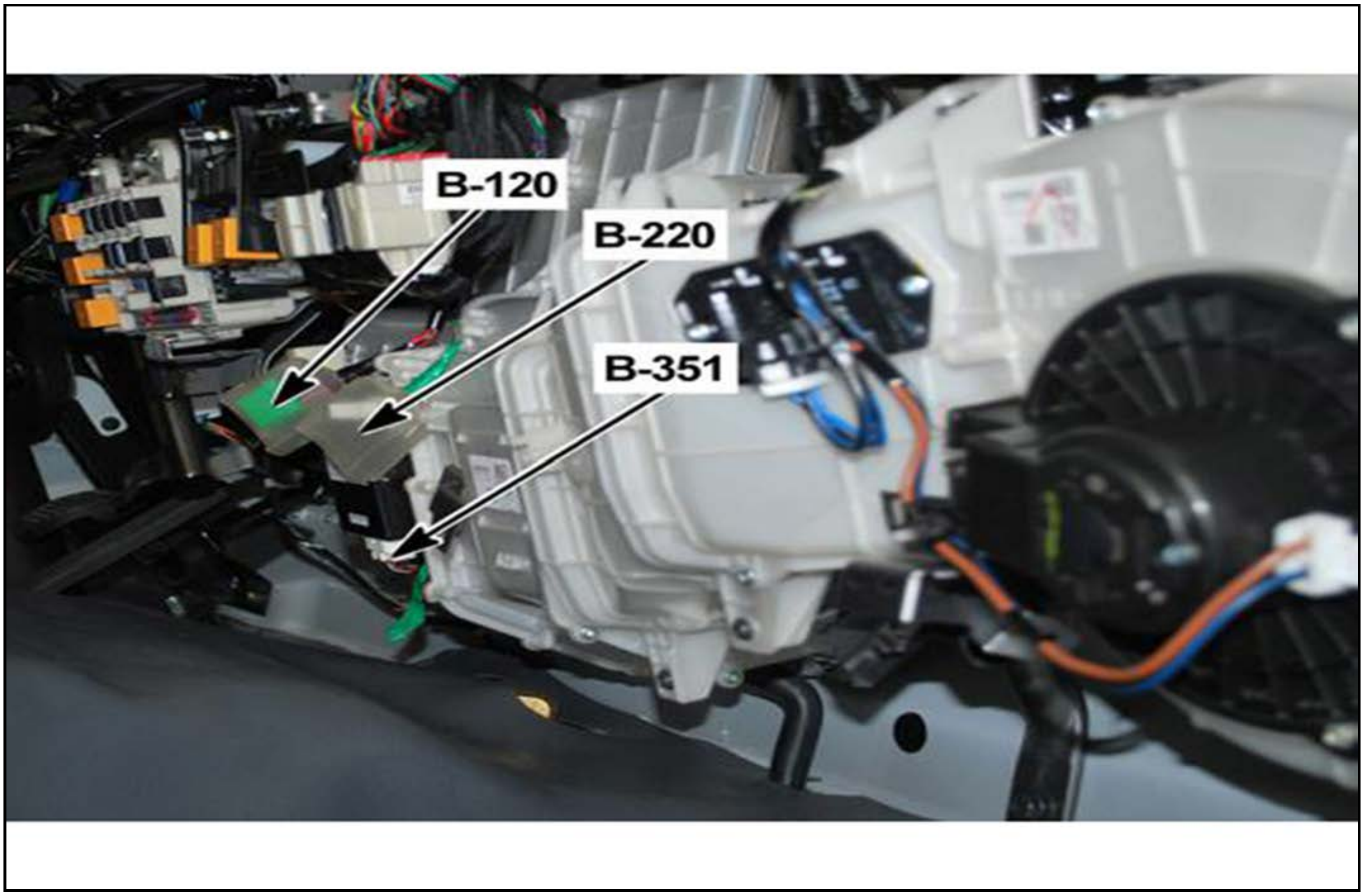
B-220 Power Source



4896056

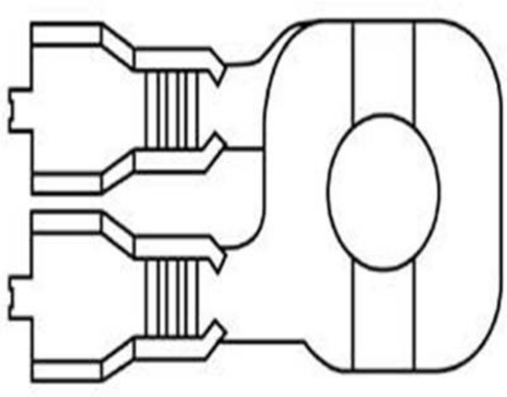
Connector Part Information		• 7323-6317 • 1-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/ORN	SA002B	Ignition Voltage from Fuse A-3

Center of the Instrument Panel, Below the Fuse/Relay Center (Cab)



4896060

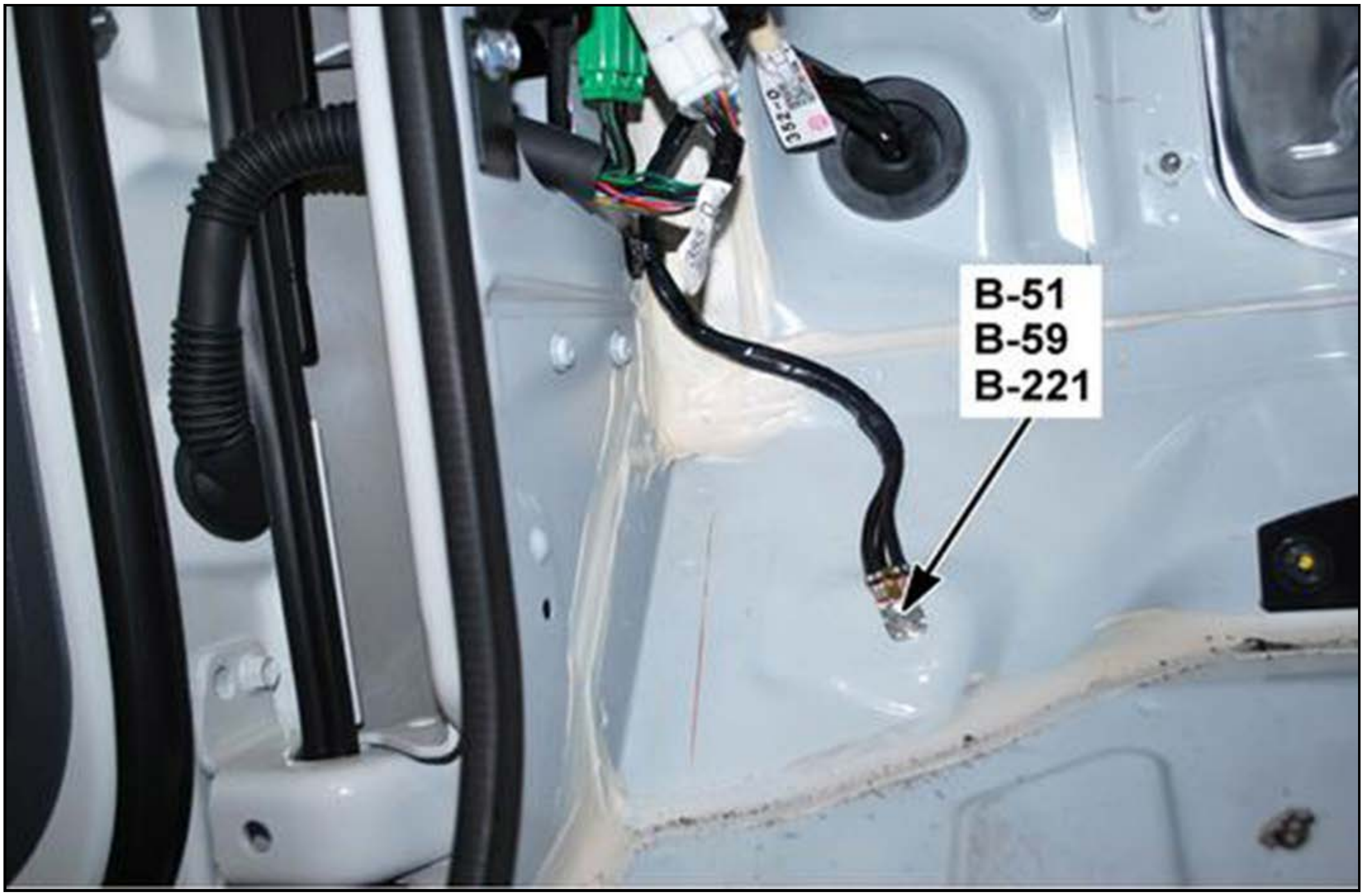
B-221 Ground



4894435

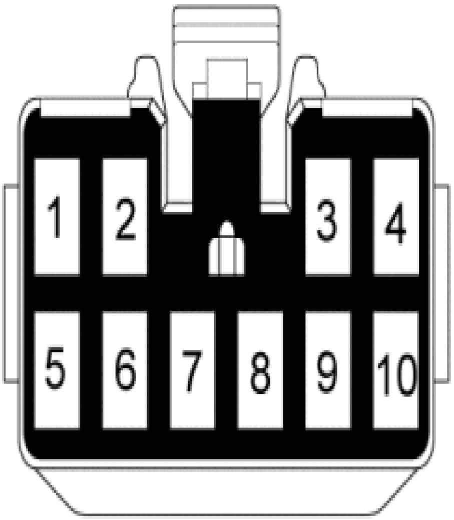
Connector Part Information	• 7009-1333 • 1-Way Eyelet		
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	ZZ042B	Ground to Splice 18

B-221 Left Inner Corner of the Cab, Across from the Lower Door Hinge



4896071

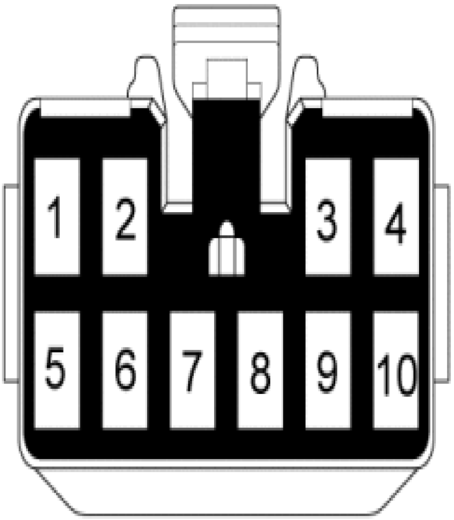
B-222 Rear Dome Lamp Switch



4896080

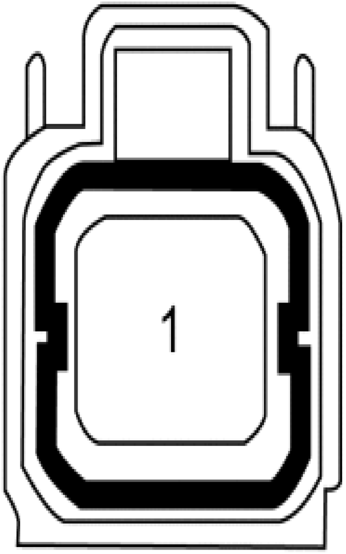
Connector Part Information		• 7383-1100-30 • 10-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	YEL	IA041B	Rear Dome Light Relay Coil Control
2	BLK	IX004B	Ground to B-377 Splice Pack (B-51 Ground)
3–4	—	—	Not Used
5	YEL	IA040B	Switch ON Indicator Supply Voltage
6	RED	IA020B	Battery Voltage from Fuse F-36
7	LT GRN/BLK	BA045B	Dimming Control to Dimming Control Switch
8	LT GRN/RED	BA039B	Fuse F-28 Voltage (Headlamp Switch ON), Dimming Control
9–10	—	—	Not Used

B-222 On the Left Side of the IP to the Left of the Steering Column



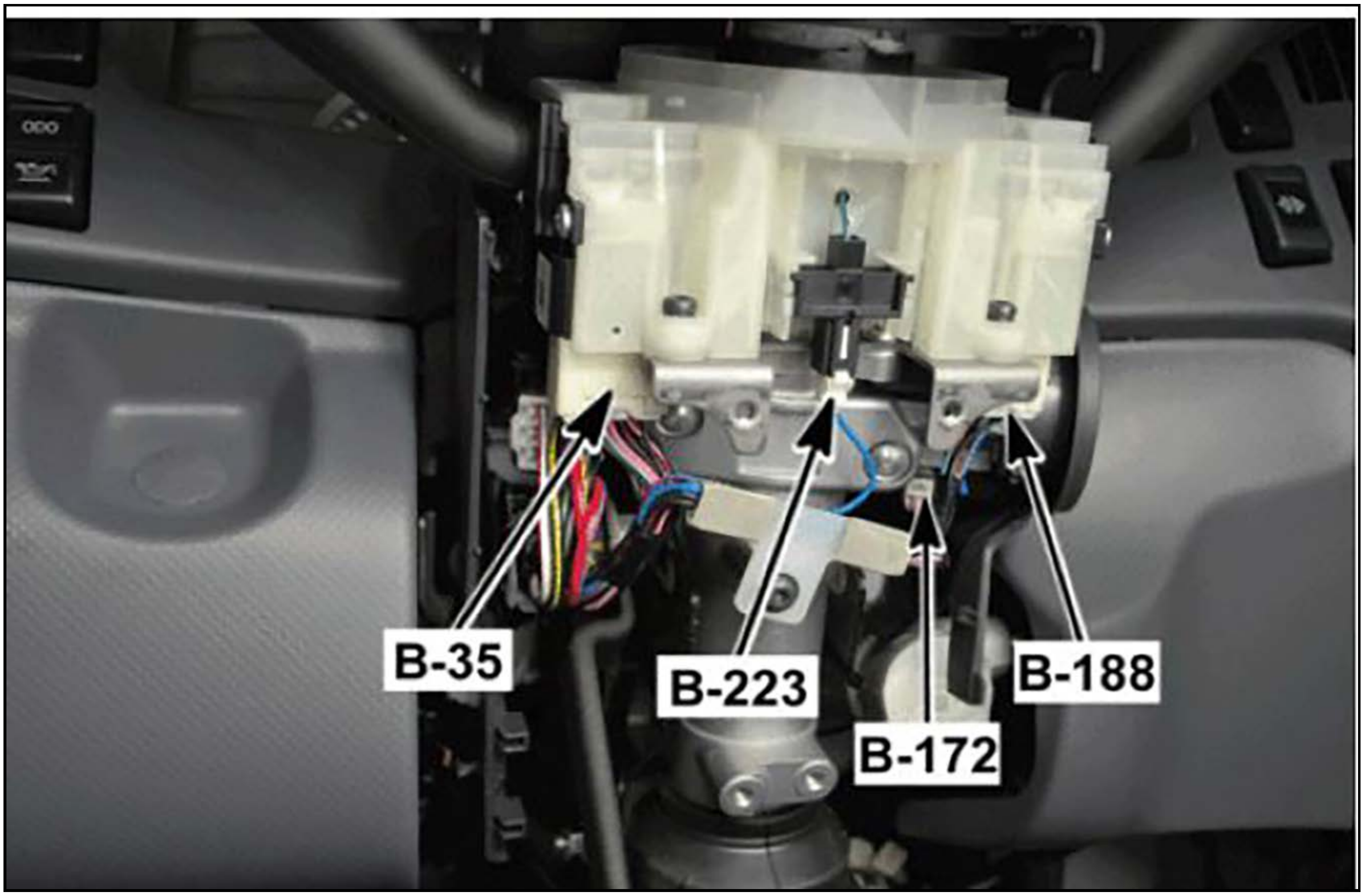
Connector Part Information		• 7383-1100-30 • 10-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	YEL	IA041B	Rear Dome Light Relay Coil Control
2	BLK	IX004B	Ground to B-377 Splice Pack (B-51 Ground)
3–4	—	—	Not Used
5	YEL	IA040B	Switch ON Indicator Supply Voltage
6	RED	IA020B	Battery Voltage from Fuse F-36
7	LT GRN/BLK	BA045B	Dimming Control to Dimming Control Switch
8	LT GRN/RED	BA039B	Fuse F-28 Voltage (Headlamp Switch ON), Dimming Control
9–10	—	—	Not Used

B-223 Horn Switch



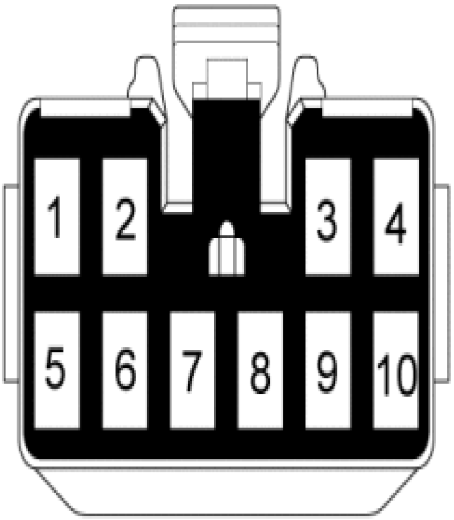
Connector Part Information		• 7383-2413 • 1-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU	DA004B	Horn Relay Control

B223 In the Steering Column Under the Steering Column Trim Panels



4895830

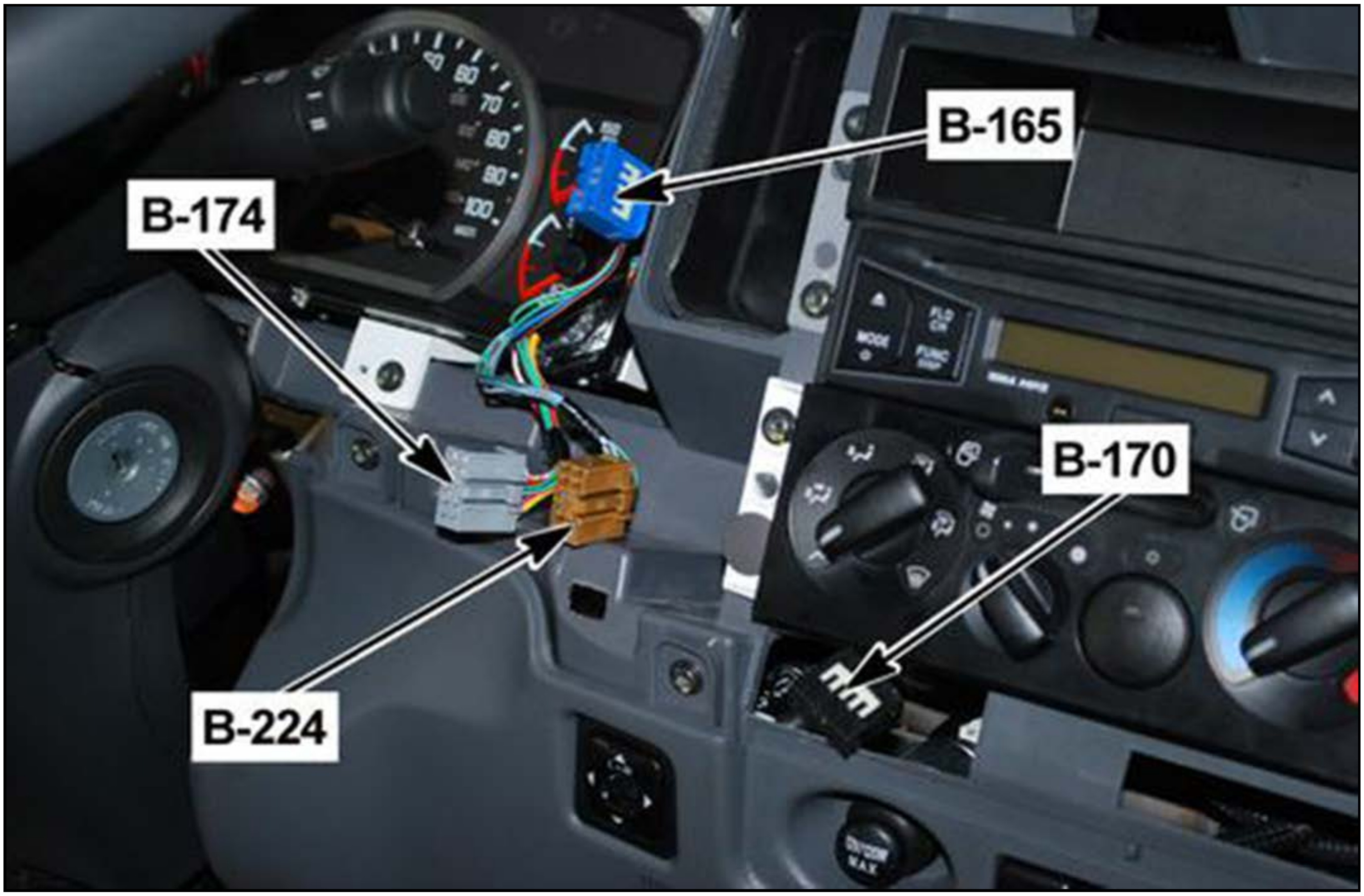
B-224 Cruise Main Switch



4896116

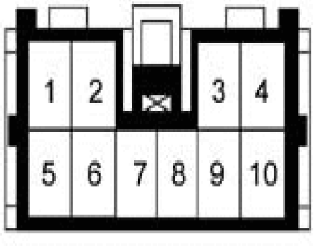
Connector Part Information		- 7383-1100-80 - 10-Way F (BRN)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1–2	—	—	Not Used
3	GRY/BLU	IC178B	Ignition Voltage from Fuse F-20
4	GRY/BLU	IC158B	Switch Signal
5–6	—	—	Not Used
7	LT GRN/BLK	BA013B	Dimming Control to Dimming Control Switch
8	LT GRN/RED	BA014B	Fuse F-28 Voltage (Headlight Switch ON), Dimming Control
9–10	—	—	Not Used

In the Center of the I/P, On the Left Side of the HVAC Controls


B-165
B-174
B-170
B-224

4896118

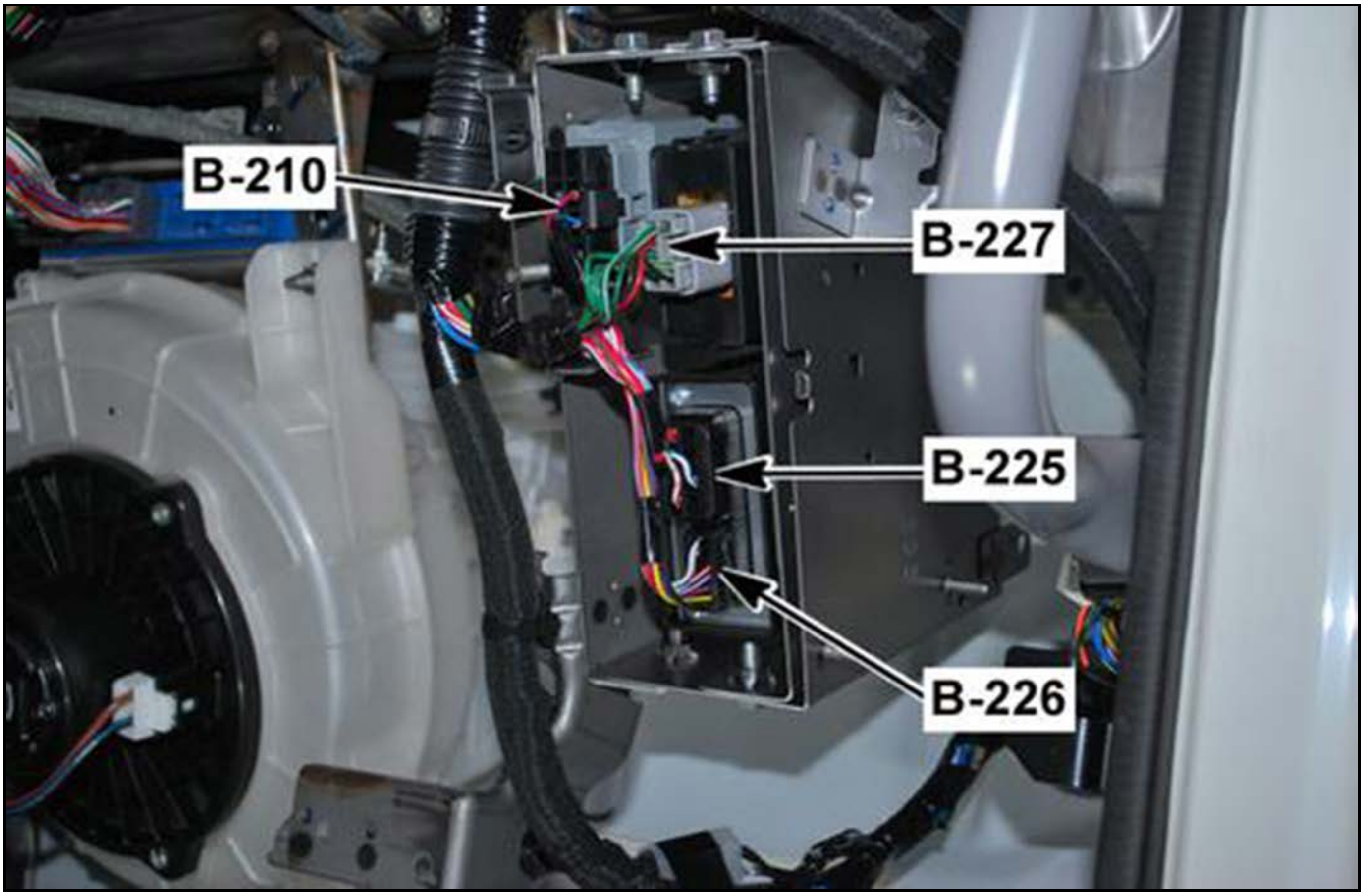
B-225 Daytime Running Lamp (DRL) Module



4896123

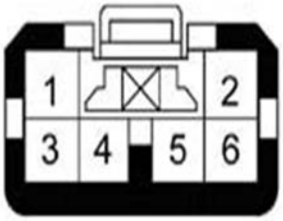
Connector Part Information		• 7323-8307-30 • 10-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT/BLU	AA029B	Charge Indicator (Red) Signal
2	WHT/BLK	AA021B	Parking Brake Switch Signal from J/B 1 (B-138 pin 10)
3	—	—	Not Used
4	BLK	AX004B	Ground to B-48 Junction Block (B-53 Ground)
5–6	—	—	Not Used
7	RED/WHT	AA023B	Headlamp High Beam Signal
8	VIO/WHT	AA019B	Combination Switch Signal
9	RED/BLU	AA040B	X-2 DRL Relay Coil Control
10	YEL/GRN	AA036B	DRL Indicator (Green) Control

Right Side of the IP to the Right of the Blower Motor (Trim Panel is Removed)



4896131

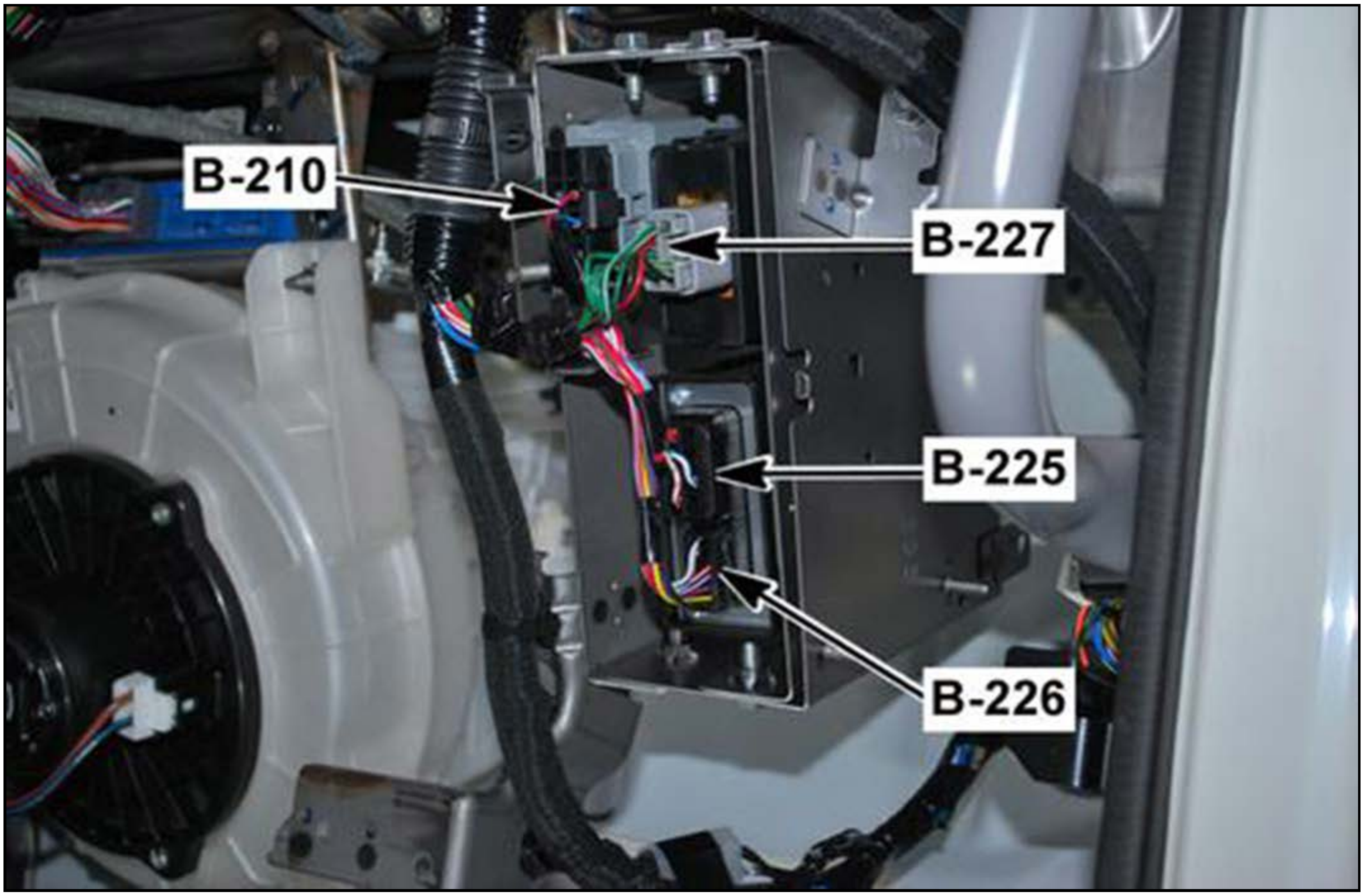
B-226 Daytime Running Lamp (DRL) Module



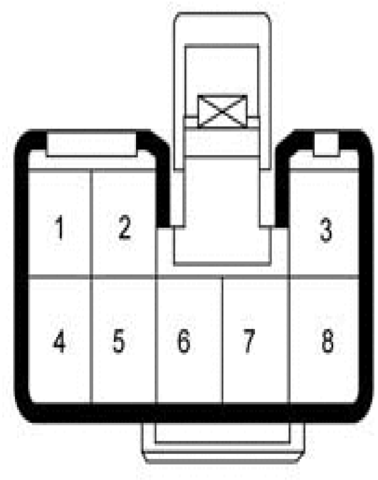
4896140

Connector Part Information		• 7383-1065-30 • 6-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/GRN	AA041B	X-2 DRL Relay Voltage (Switched Output Voltage)
2	WHT/RED	AA045B	Low Beam Headlamp Signal (RH)
3–4	—	—	Not Used
5	WHT/BLU	AA044B	Low Beam Headlamp Signal (LH)
6	—	—	Not Used

Right Side of the IP to the Right of the Blower Motor (Trim Panel is Removed)

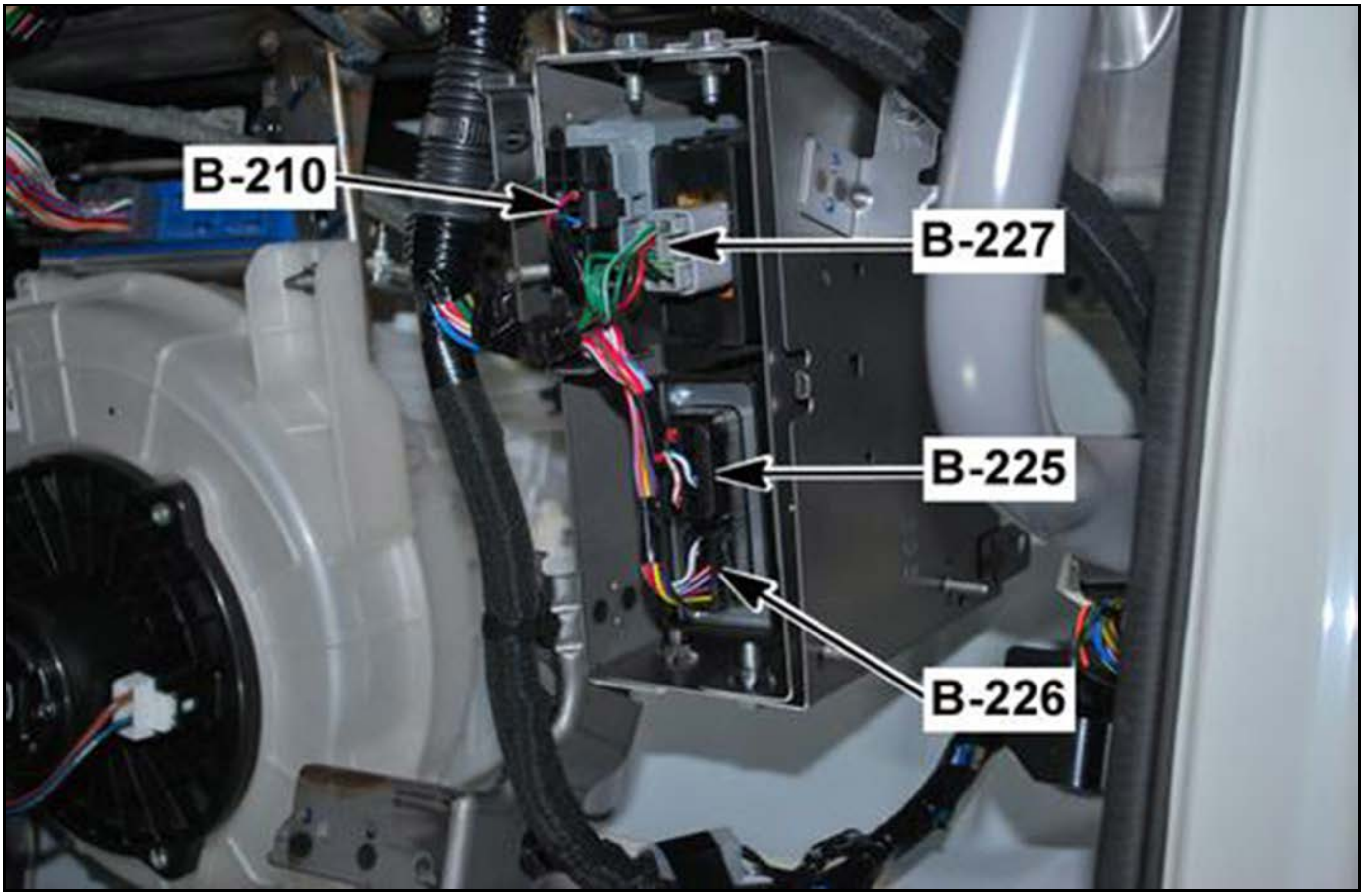

B-210
B-227
B-225
B-226
4896131

B-227 Door Lock Relay



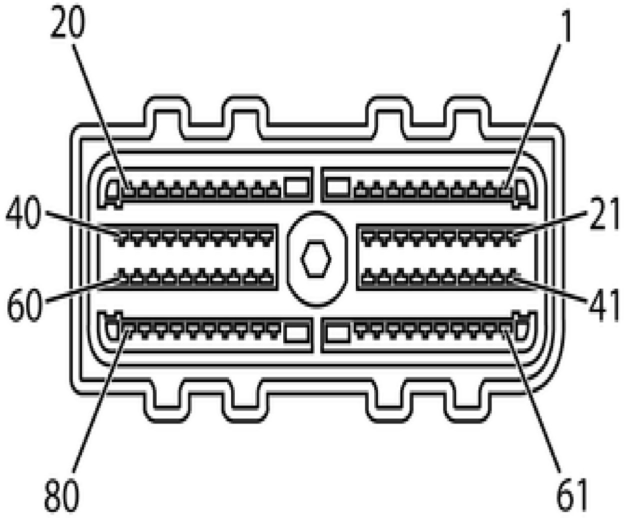
Connector Part Information		• 7383-1080-40 • 8-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	VX004B	Ground to J/B 2 (B-145 pin 5) (B-53 Ground)
2	GRN/YEL	VA016B	Lock Acutator Control
3	GRN/RED	VA017B	Unlock Actuator Control
4	BLK	VX006B	Ground to J/B 2 (B-144 pin 17) (B-53 Ground)
5	GRN/BLK	VA019B	Lock Switch Signal
6	GRN	VA018B	Battery Voltage from Fuse F-4 from J/B 2 (B- 143 pin 2)
7	RED/GRN	VA005B	Unlock Switch Signal
8	GRN/WHT	VA014B	Door Lock Switch Signal

Right Side of the IP to the Right of the Blower Motor (Trim Panel is Removed)


B-210
B-227
B-225
B-226

4896131

B-228 Transmission Control Module (TCM)

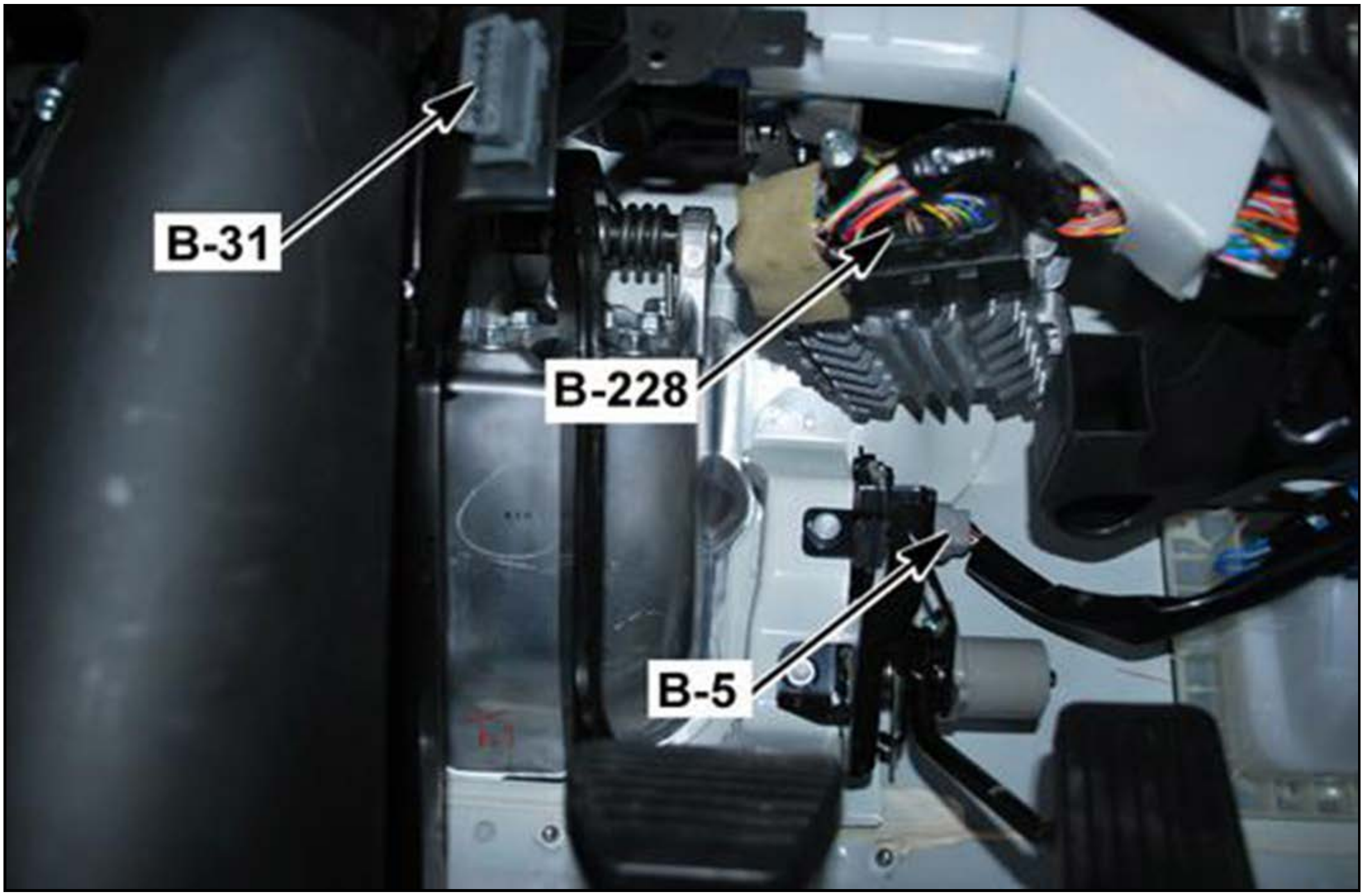

20
1
40
21
60
41
80
61

4896155

Connector Part Information		• 29543004 • 80-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BRN	OA044B	Range Inhibitor Switch
2	—	—	Not Used
3	BLK	OA046B	Digital Return
4–5	—	—	Not Used
6	GRN/YEL	TF164B	CAN High to TCM (B-228 pin 26)
7	—	—	Not Used
8	BLU	TF038B	CAN 1 Low
9	BLK	OX006B	Ground to J/B 2 (B-145 pin 9) (B-53 Ground)
10	ORN	OA088B	Battery Voltage from Fuse F-35
11	YEL/BRN	OA082B	High Side Driver (HSD) 1 Output
12–13	—	—	Not Used
14	BLU/RED	OA071B	Internal Mode Switch "C" Signal
15–16	—	—	Not Used
17	GRN/BLK	OA067B	Pressure Switch 1 (PS1) Signal
18–19	—	—	Not Used
20	YEL	OA064B	Input Shaft Speed (ISS) Sensor 5-Volt Supply
21–22	—	—	Not Used
23	PNK	OA041B	Auto Neutral
24	BLK/ORN	OA057B	Range Inhibitor Switch to IPC
25	—	—	Not Used
26	GRN/YEL	TF164B	CAN High to TCM (B-228 pin 6)
27	GRN	TF032B	CAN 2 Low
28	BLU/WHT	TF037B	CAN 1 High
29	GRN/ORN	OA059B	Check Trans Indicator (Amber) Control
30	—	—	Not Used
31	BRN/YEL	OA097B	High Side Driver (HSD) 3 Voltage
32	—	—	Not Used
33	WHT/BLK	OA075B	Shift Solenoid 2 (SS 2) Valve Control
34	GRN/RED	OA069B	Internal Mode Switch "P" Signal
35	—	—	Not Used
36	WHT/BLU	OA077B	Pressure Control Solenoid 2 (PSC 2) Control
37	ORN	OA098B	Pressure Control Solenoid 3 (PSC 3) Control
38	GRN/WHT	OA070B	Internal Mode Switch "CE" Signal
39	BLK/RED	OA060B	Engine Speed Sensor Supply Voltage
40	BLK/BLU	OA062B	Output Shaft Speed (OSS) Sensor 5-Volt Reference
41–42	—	—	Not Used
43	WHT	OA051B	PTO Switch
44	—	—	Not Used
45	YEL	OA040B	Range Indicator
46–49	—	—	Not Used
50	LT BLU	OA047B	PTO Output
51	WHT	OA074B	Shift Solenoid 3 (SS 3) Valve Control
52	WHT/GRN	OA076B	Shift Solenoid 1 (SS 1) Valve Control
53	BLU	OA072B	Internal Mode Switch "B" Signal
54	YEL/RED	OA085B	Transmission Fluid Temperature Sensor Signal

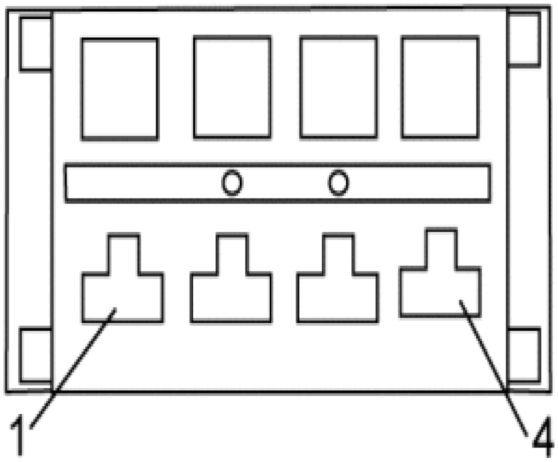
Connector Part Information		• 29543004 • 80-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
55	YEL/BLK	OA081B	Pressure Control Solenoid 3 (PSC 3) Control
56	—	—	Not Used
57	GRN	OA066B	Pressure Switch 3 (PS3) Signal
58	BRN/GRN	OA086B	Analog Sensor Signal Return
59	WHT/RED	OA061B	Engine Speed Sensor Signal
60	WHT/BLU	OA063B	Output Shaft Speed (OSS) Sensor Signal
61–62	—	—	Not Used
63	BLK/ORN	OA087B	Ignition Voltage from Fuse F-20
64	GRY	OA056B	Trans Fluid Temperature Indicator (Red) Control
65	WHT/BLU	OA058B	Reverse Lamp Relay Coil Control
66	GRN/WHT	TF031B	CAN 2 High
67–68	—	—	Not Used
69	BLK	OX005B	Ground to J/B 2 (B-145 pin 8) (B-53 Ground)
70	ORN	OA089B	Battery Voltage from Fuse F-35
71	BRN/BLK	OA078B	High Side Driver (HSD) 2 Voltage
72	—	—	Not Used
73	BLU/YEL	OA073B	Internal Mode Switch "A" Signal
74	WHT/RED	OA079B	Main Modulator Solenoid Control
75–76	—	—	Not Used
77	YEL/GRN	OA083B	Pressure Switch 4 (PS4) Signal
78	BRN/WHT	OA080B	Torque Converter Clutch (TCC) Solenoid Control
79	GRN/YEL	OA068B	Pressure Switch 2 (PS2) Signal
80	BLU	OA065B	Input Shaft Speed (ISS) Sensor Signal

B228 Above the Accelerator Pedal



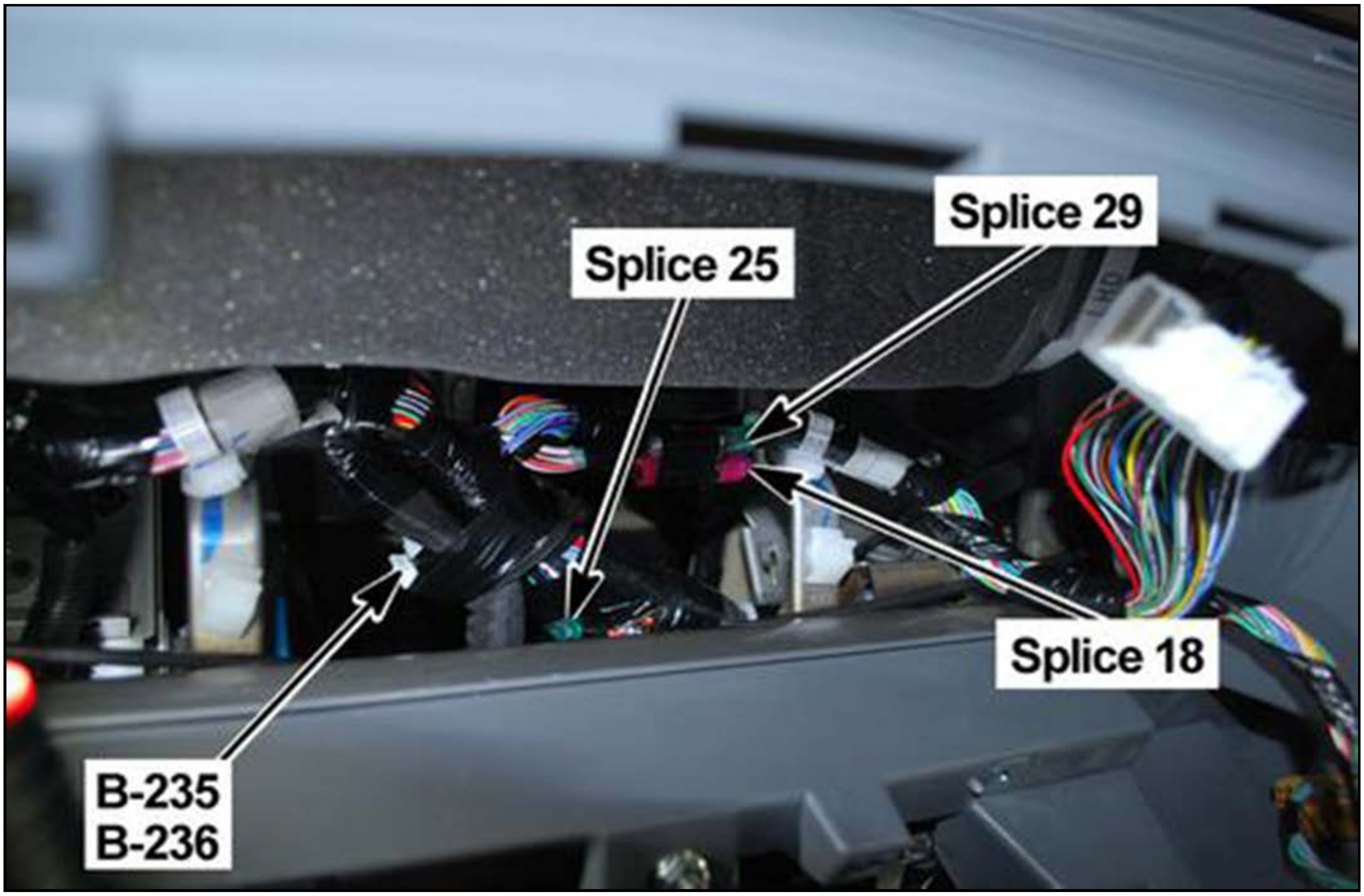
4896160

B235 Can 2 Splice Pack



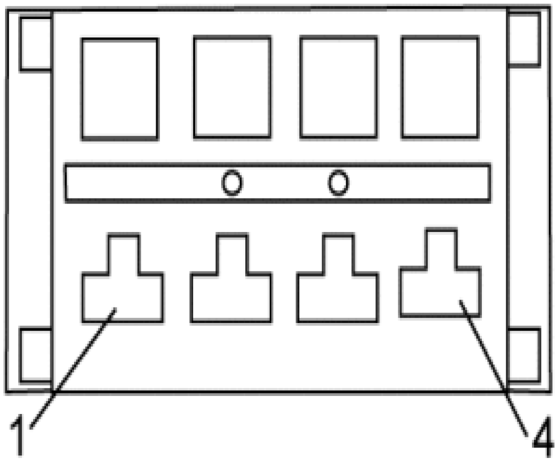
Connector Part Information	- 7383-3190 - 4-Way F (WHT)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN	TF036B	ISO 15765 CAN Low Serial Data to EGR Valve, ECM, DEF Module, Particulate Matter Sensor
2	—	—	Not Used
3	GRN	TF044B	ISO 15765 CAN Low Serial Data to B-405 CAN 2 Splice Pack
4	GRN	TF041B	ISO 15765 CAN Low Serial Data to DLC

B235 Behind the Instrument Panel Cluster (IPC) (View with IPC Removed)


Splice 29
Splice 25
Splice 18
B-235
B-236

4896168

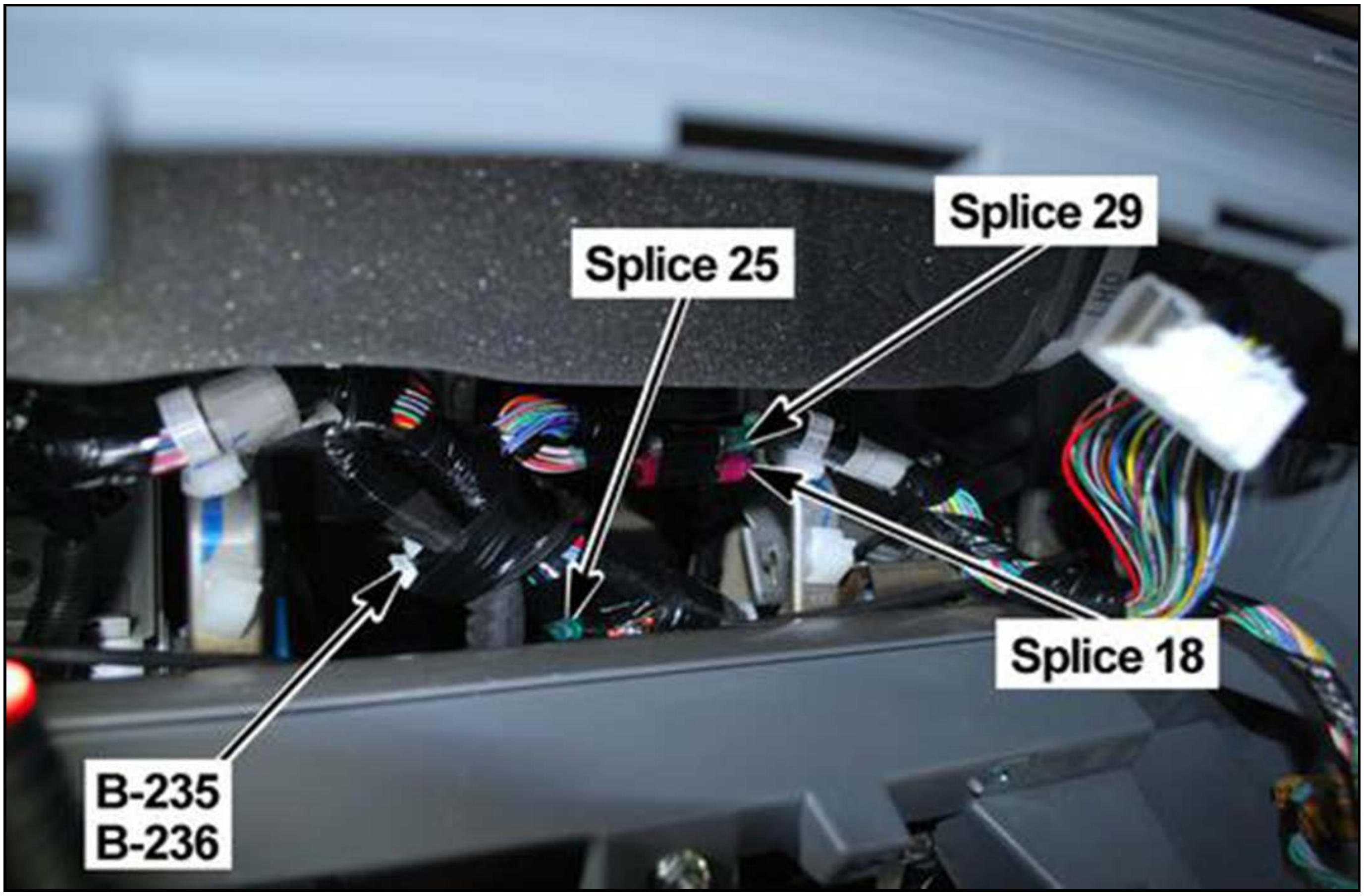
B-236 CAN 2 Splice Pack



4896165

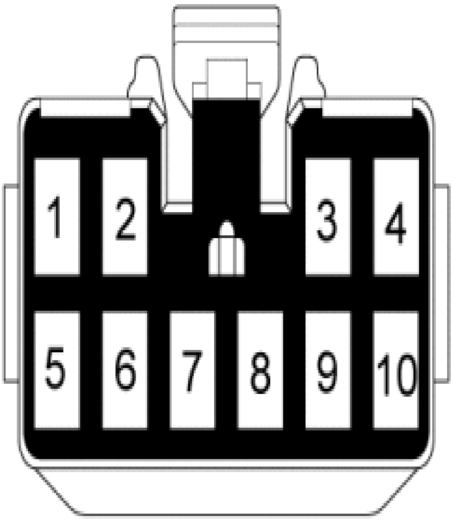
Connector Part Information		• 7383-3190 • 4-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/WHT	TF035B	ISO 15765 CAN High Serial Data to EGR Valve, ECM, DEF Module, Particulate Matter Sensor
2	—	—	Not Used
3	GRN/WHT	TF043B	ISO 15765 CAN High Serial Data to B-406 CAN 2 Splice Pack
4	GRN/WHT	TF042B	ISO 15765 CAN High Serial Data to DLC

B235 Behind the Instrument Panel Cluster (IPC) (View with IPC Removed)


Splice 29
Splice 25
Splice 18
B-235
B-236

4896168

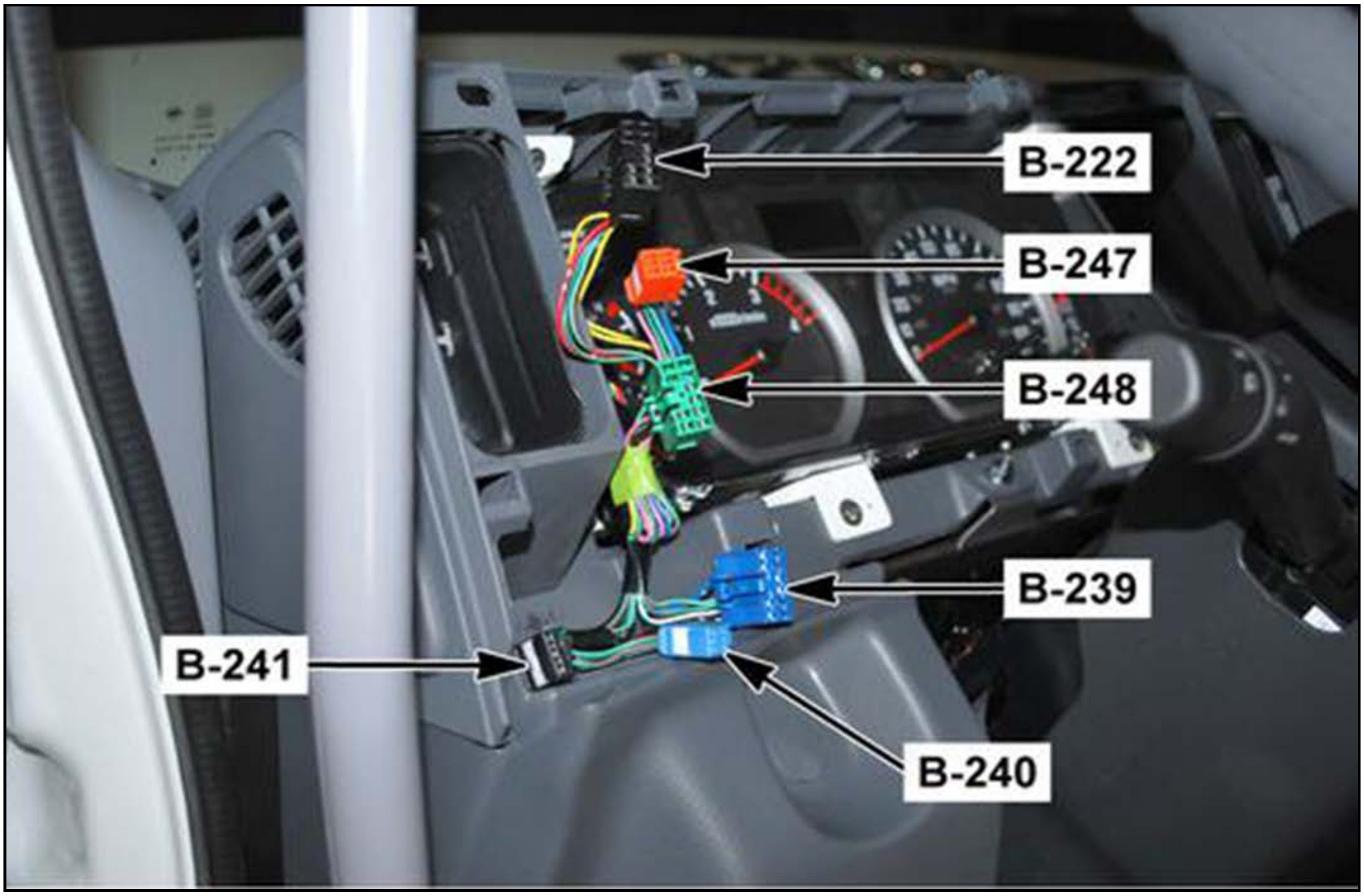
B-239 Miles/Oil Level Check Switch



4896189

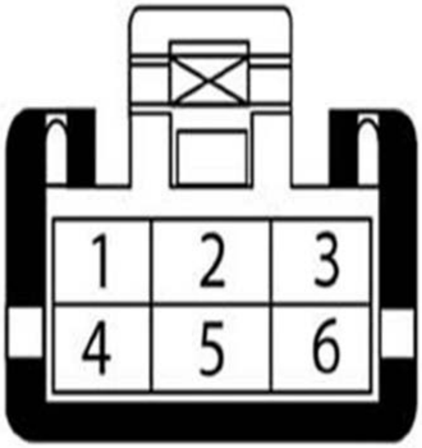
Connector Part Information		• 7383-1100-90 • 10-Way F (BLU)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK/BLU	MA054B	Battery Voltage from Fuse F-22
2	WHT	MA056B	Oil Level Indicator Control
3	BLK/BLU	MA055B	Battery Voltage from Fuse F-22
4	BLU	MA053B	Miles Check Display Control
5–6	—	—	Not Used
7	LT GRN/BLK	BA020B	Dimming Control to Dimming Control Switch
8	LT GRN/RED	BA021B	Fuse F-28 Voltage (Headlight Switch ON), Dimming Control
9–10	—	—	Not Used

B239 On the Left Side of the IP to the Left of the Steering Column


B-222
B-247
B-248
B-239
B-241
B-240

4896199

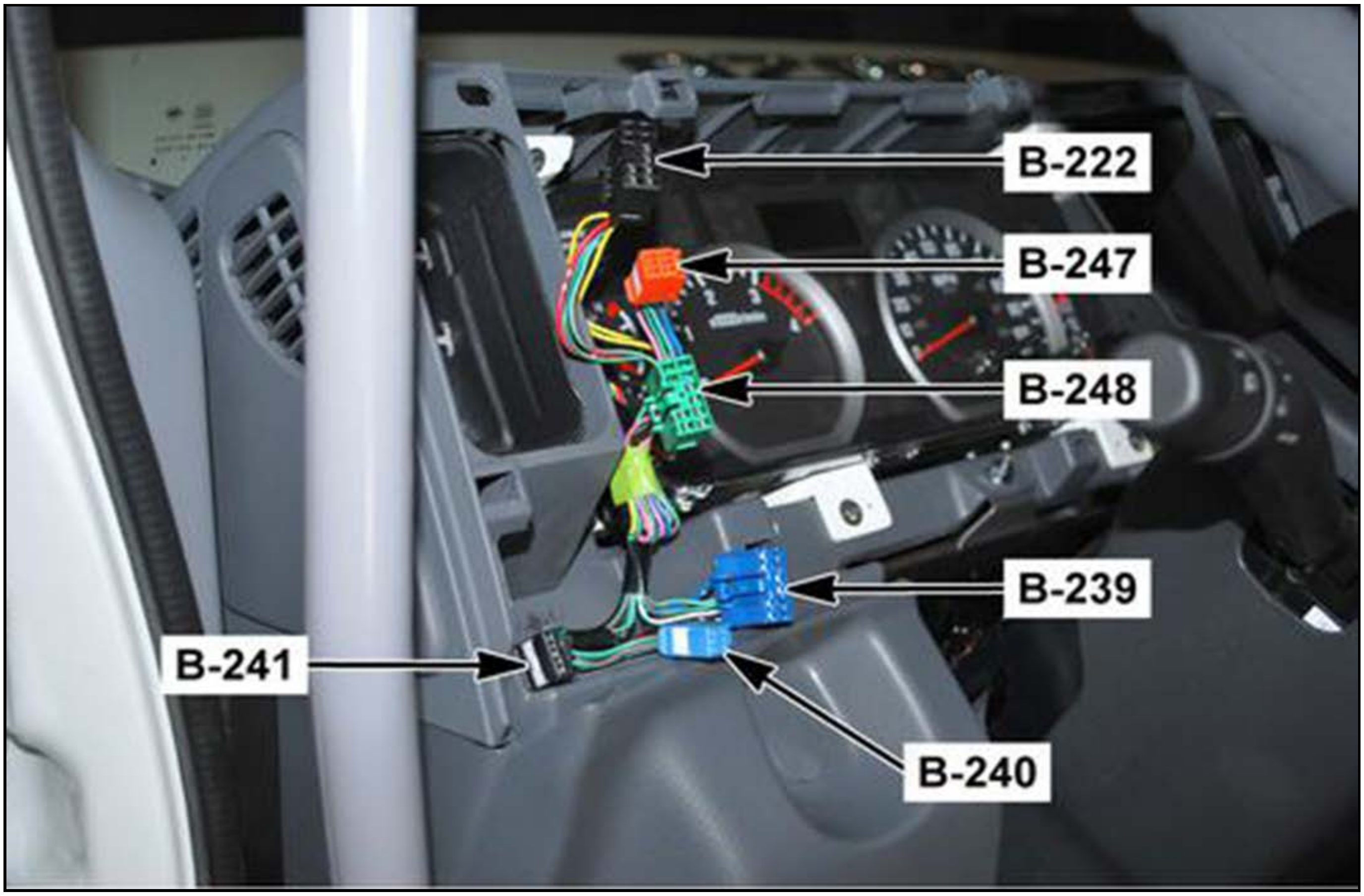
B240 Door Lock Switch



4896206

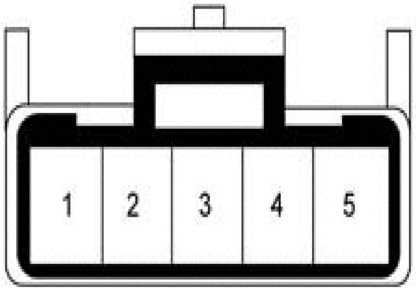
Connector Part Information	• 7383-5862-90 • 6-Way F (BLU)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/GRN	VA015B	Unlock Signal
2	—	—	Not Used
3	GRN/WHT	VA020B	Lock Signal
4	BLK	VX005B	Ground to B-600 Splice Pack (B-51 Ground)
5	LT GRN/BLK	BX026B	Dimming Control to Dimming Control Switch
6	LT GRN/RED	BA042B	Fuse F-28 Voltage (Headlight Switch ON), Dimming Control

B239 On the Left Side of the IP to the Left of the Steering Column


B-222
B-247
B-248
B-239
B-241
B-240

4896199

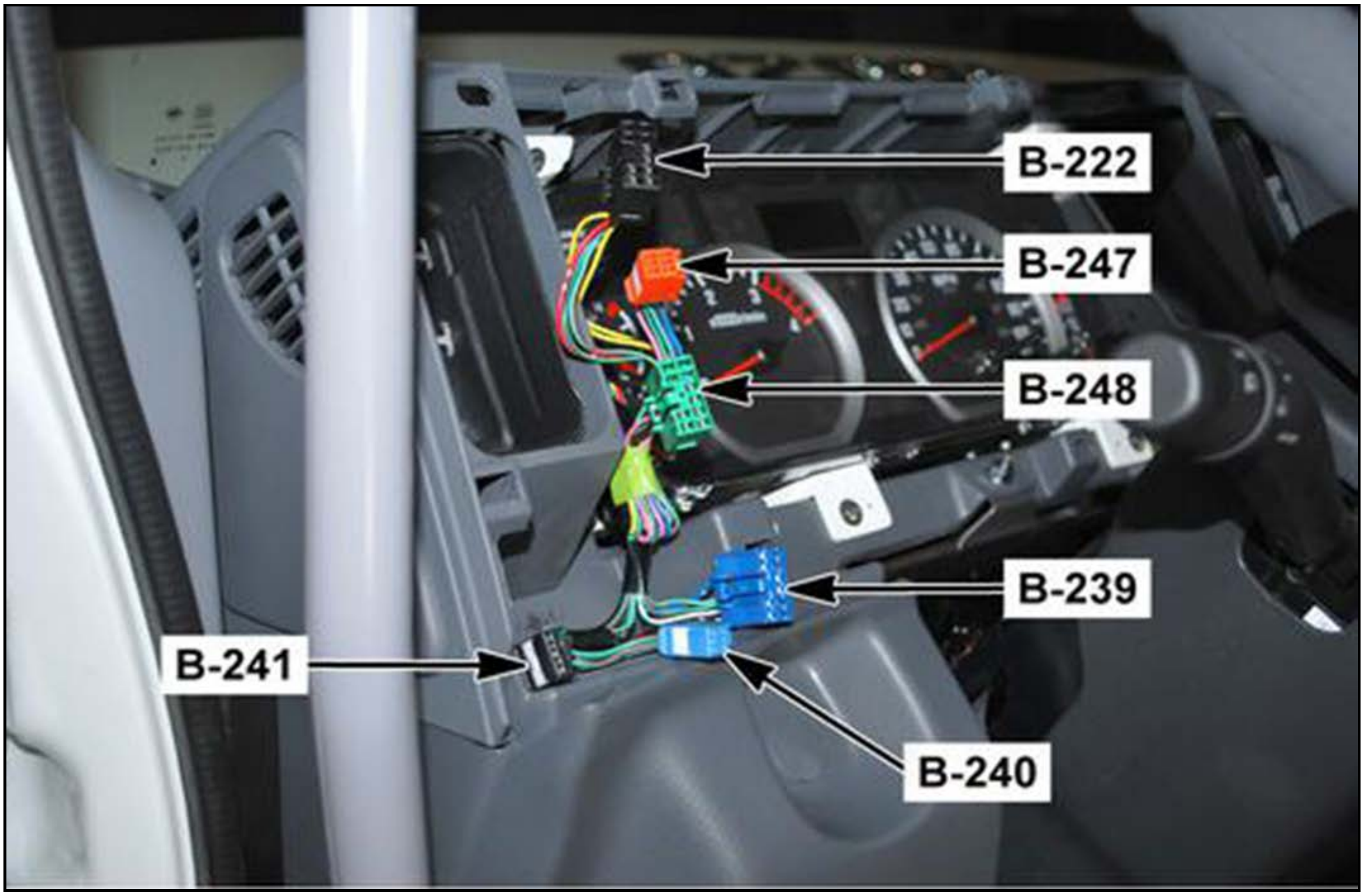
B241 Dimming Control Switch



4896218

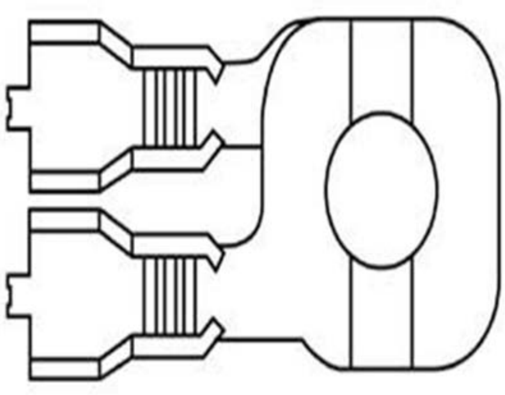
Connector Part Information		• 7383-5830-30 • 5-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	ZZ018B	Ground to B-49 Junction Block (B-52 Ground)
2	—	—	Not Used
3	LT GRN/BLK	BA051B	Dimming Control
4	—	—	Not Used
5	LT GRN/RED	BA049B	Fuse F-28 Voltage (Headlight Switch ON), Dimming Control

B239 On the Left Side of the IP to the Left of the Steering Column


B-222
B-247
B-248
B-239
B-241
B-240

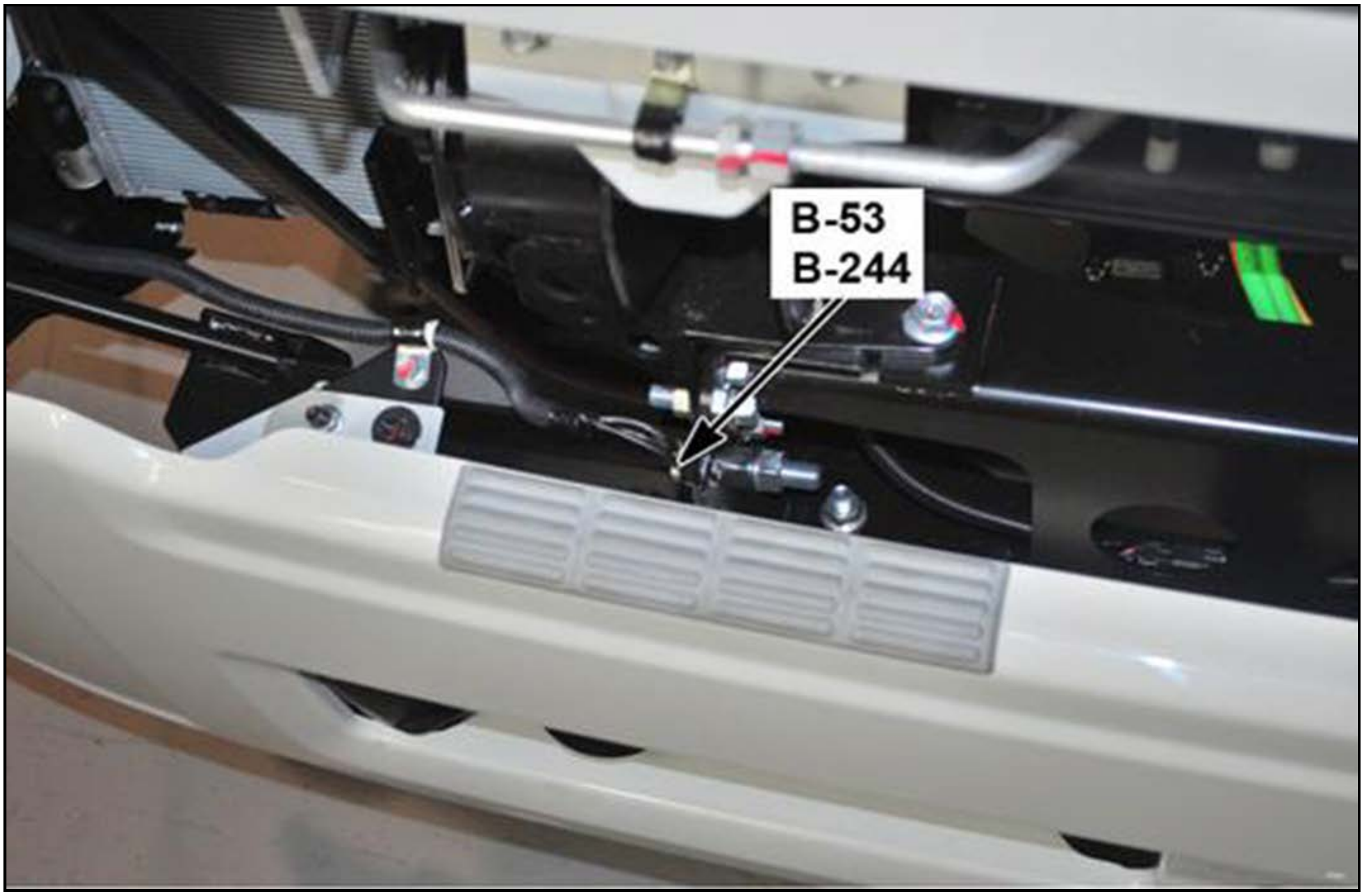
4896199

B244 Ground



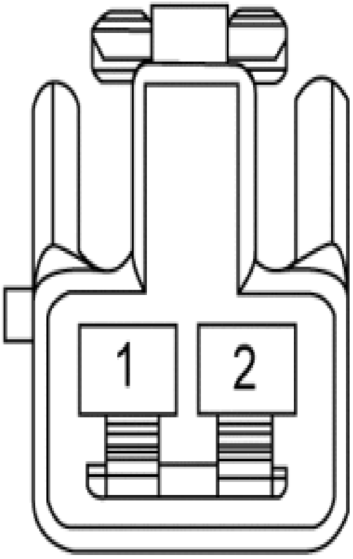
Connector Part Information		• 7009-9228-02 • 1-Way F Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	ZZ012B	Ground to B-56

B-244 Ground



4894485

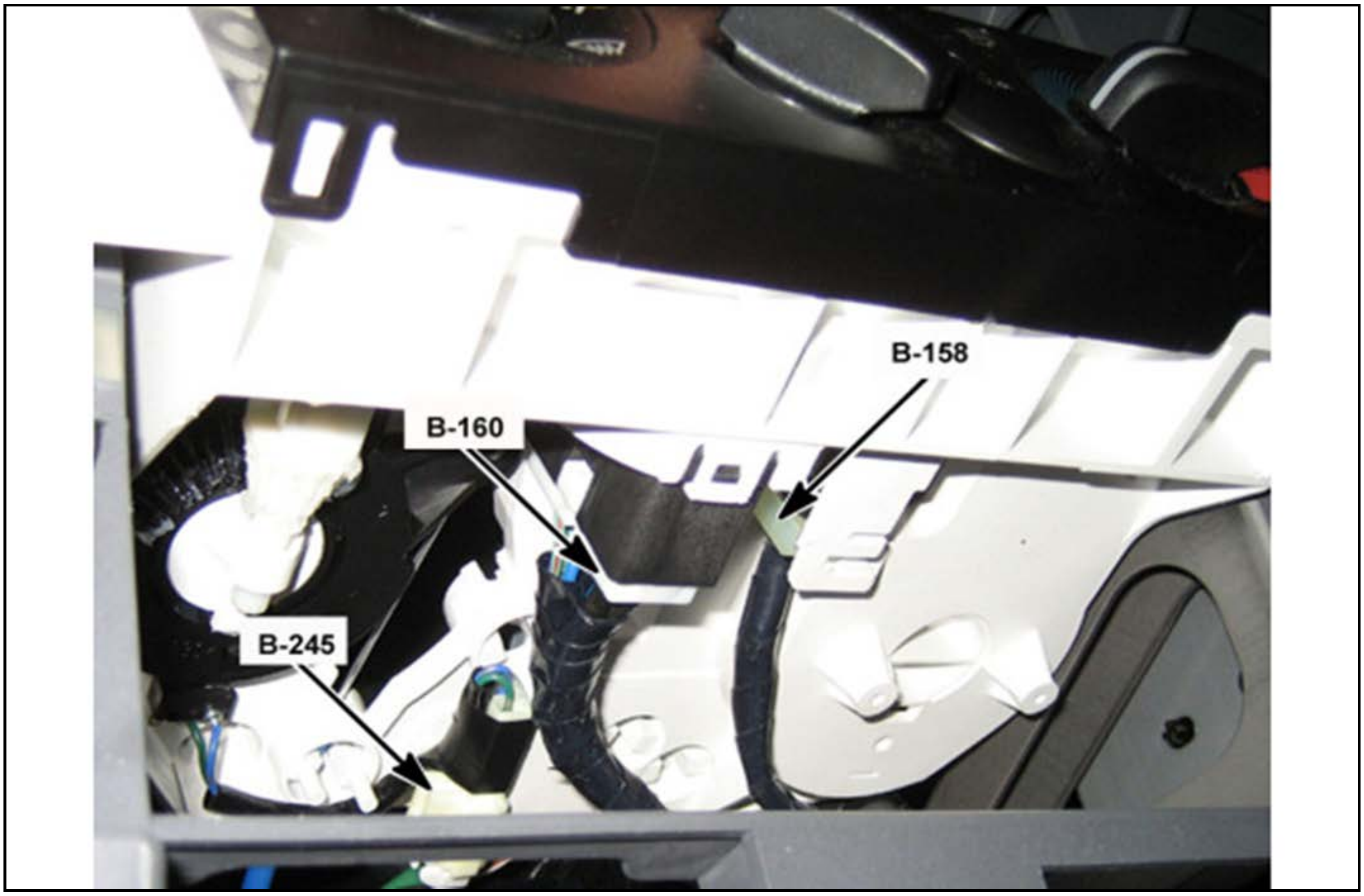
B245 Defroster Switch



4896233

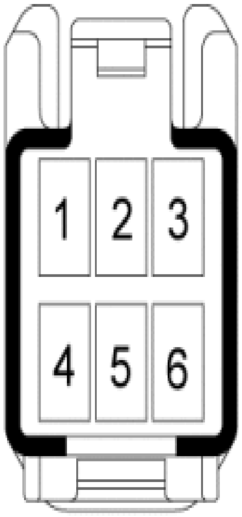
Connector Part Information		• 7383-2414 • 2-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BRN/WHT	HA063B	Defrost Switch Signal to A/C Switch
2	BLK/RED	HA064B	Fuse F-30 Voltage (Fan Control Switch ON)

B245 In the Center of the IP Behind the HVAC Controls



4896235

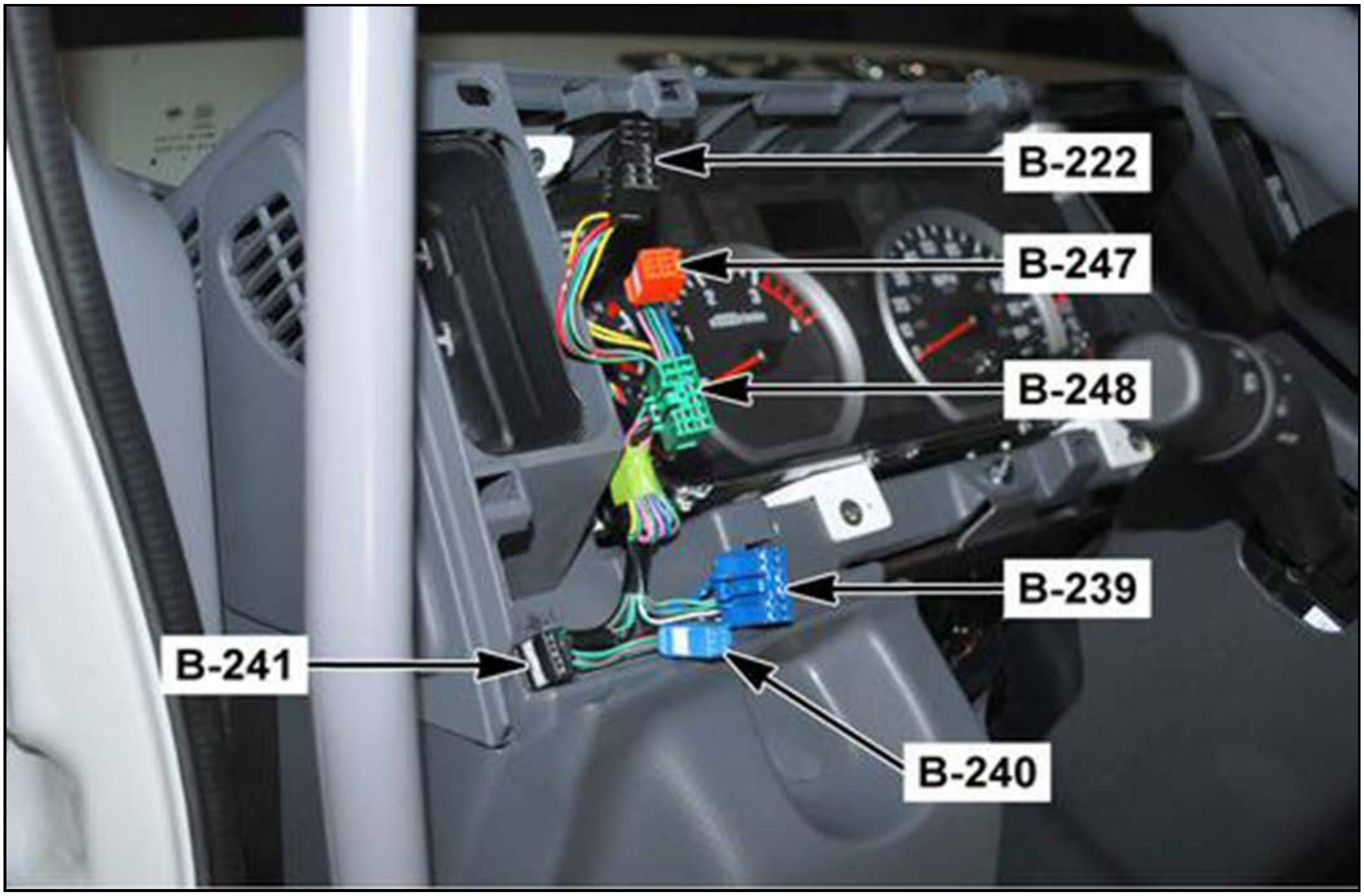
B247 PTO Up/Down Switch



4896238

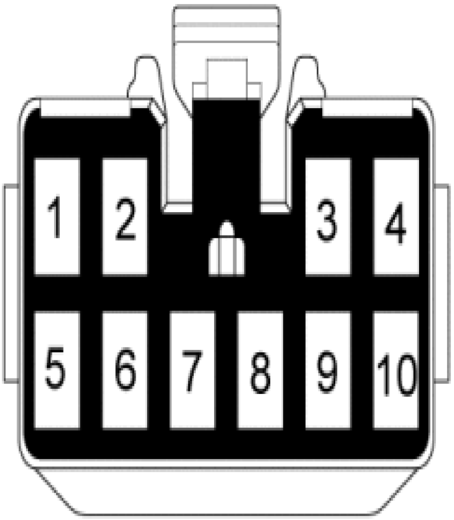
Connector Part Information		- 7383-5862-51 - 6-Way F (ORN)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU/YEL	IC095B	PTO Set Switch Signal
2	—	—	Not Used
3	BLU/ORN	IC092B	PTO Resume Switch Signal
4	PNK	IC091B	Switch Ignition Voltage Feed from PTO Main Switch
5	LT GRN/BLK	IC094B	Dimming Control to Dimming Control Switch
6	LT GRN/RED	IC093B	Fuse F-28 Voltage (Headlight Switch ON), Dimming Control

B239 On the Left Side of the IP to the Left of the Steering Column


B-222
B-247
B-248
B-239
B-241
B-240

4896199

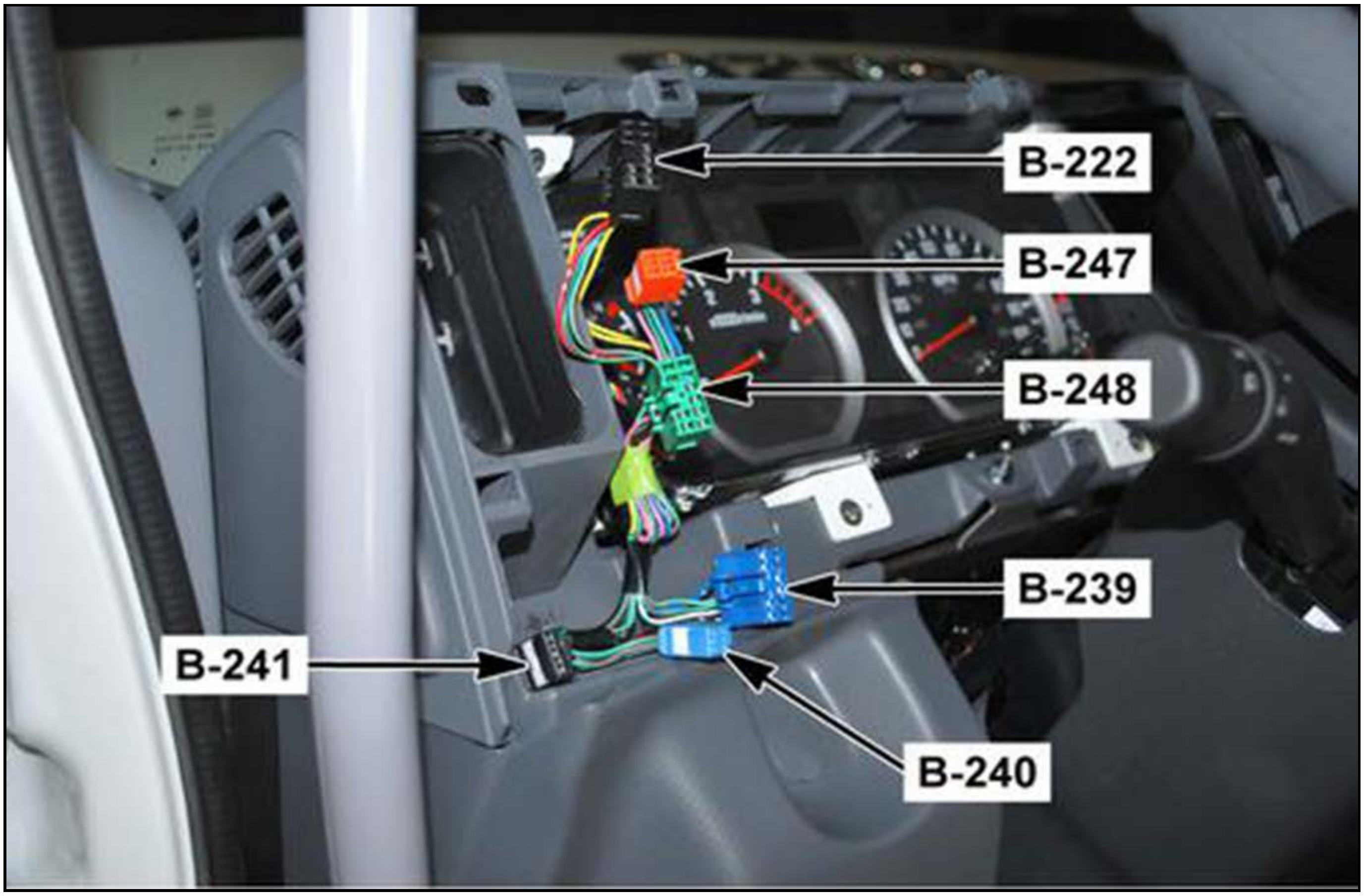
B248 PTO Switch



4896189

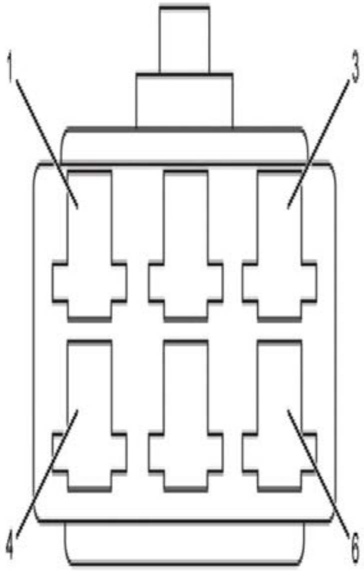
Connector Part Information		• 7383-1100-60 • 10-Way F (GRN)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/BLK	IC196B	Fuse F-18 Voltage
2	PNK	IC089B	Switch Signal (Engage)
3–4	—	—	Not Used
5	BLK	IZ086B	Indicator Lamp Ground to B-601 Splice Pack (B-51 Ground)
6	PNK	IC099B	PTO Indicator Lamp Control
7	LT GRN/BLK	IC077B	Dimming Control to Dimming Control Switch
8	LT GRN/RED	IC074B	Fuse F-28 Voltage (Headlight Switch ON), Dimming Control
9–10	—	—	Not Used

B239 On the Left Side of the IP to the Left of the Steering Column


B-222
B-247
B-248
B-239
B-241
B-240

4896199

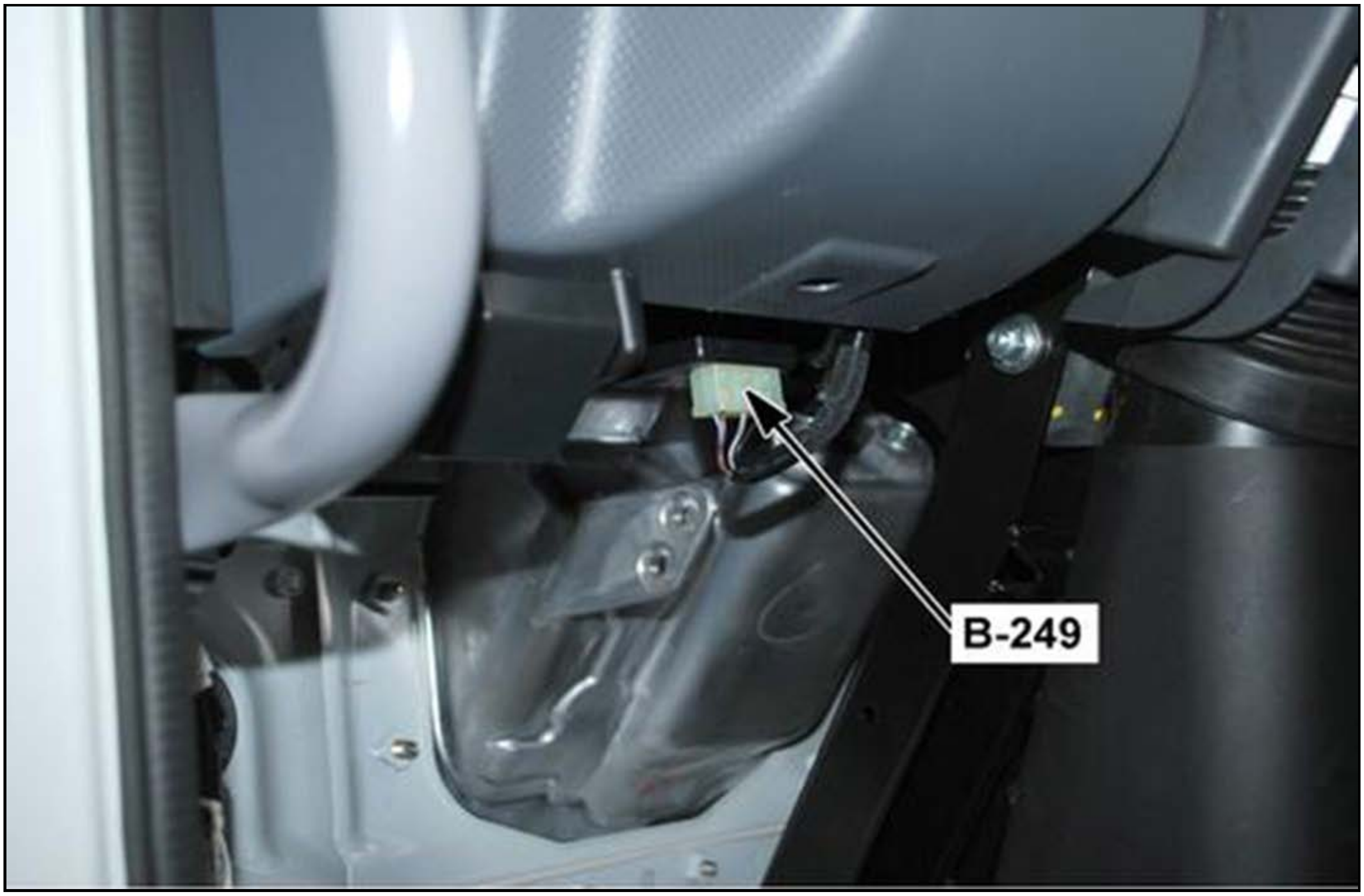
B249 Radiator Level Control Module



4896243

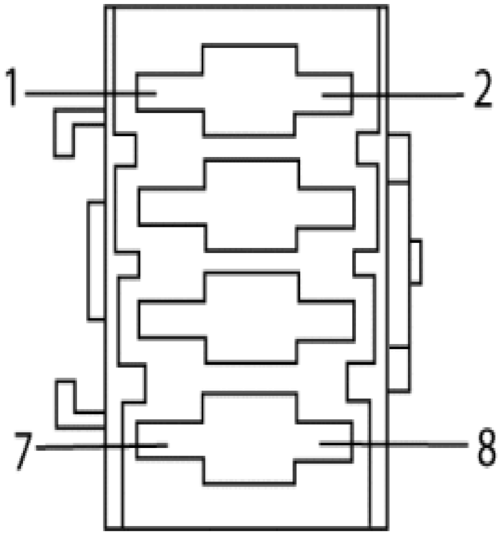
Connector Part Information	- 7323-2861 - 6-Way F (WHT)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRY/BLU	IC083B	Low Coolant Level Indicator Control
2–3	—	—	Not Used
4	BLK/ORN	IC084B	Ignition Voltage from Fuse F-20
5	GRY/BLK	IC088B	Low Coolant Level Switch Signal
6	BLK	IZ013B	Ground to B-602 Splice Pack (B-51 Ground)

B249 Radiator Level Control Module



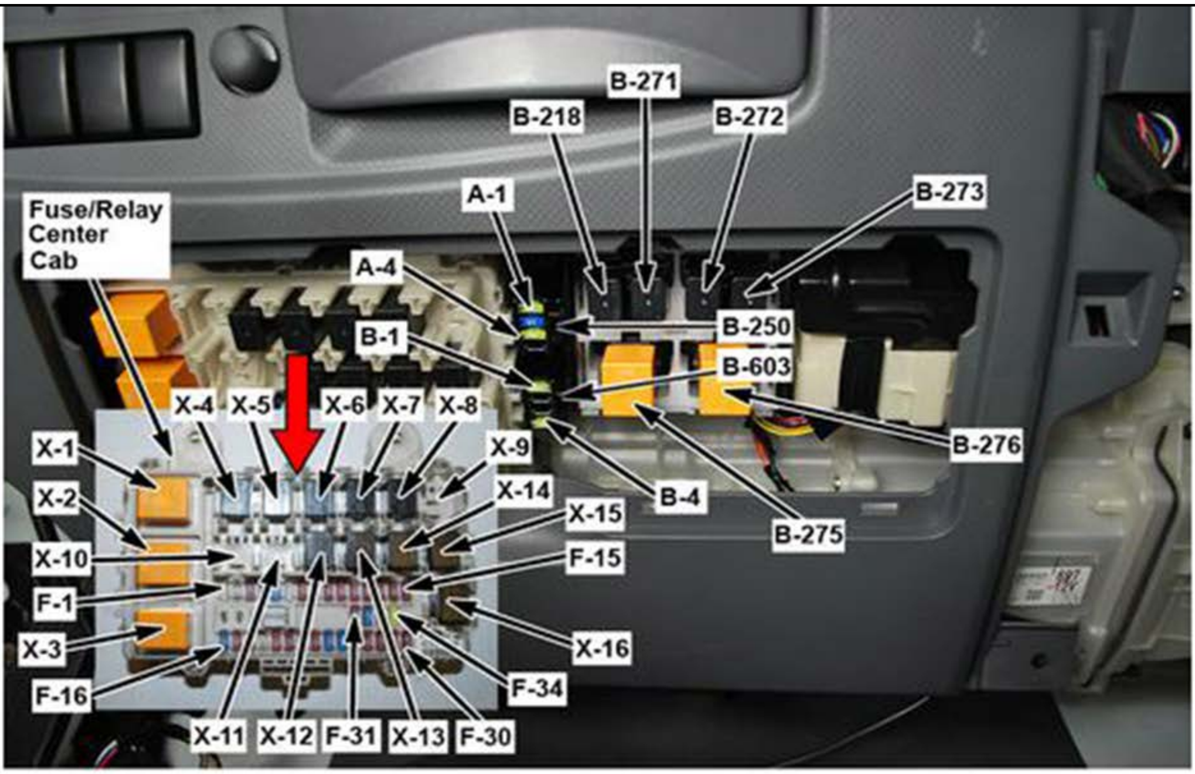
4896247

B-250 Fuse/Relay Center (Cab)



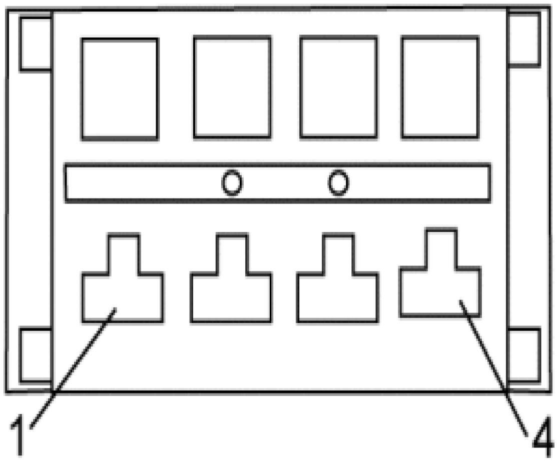
Connector Part Information	- 7354-5918-30 - 8-Way F (BLK)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK/BLU	SA010B	Voltage from Cigar Lighter Relay (Switched Output Voltage)
2	RED/YEL	SA001B	Fuse A-1 Ignition Voltage to Power Outlet Upper
3	BLK/RED	SA011B	Power ACC Relay Output Voltage
4	GRN/ORN	SA005B	Fuse A-2 Ignition Voltage to Power Outlet Lower
5	—	—	Not Used
6	GRN/ORN	SA002B	Fuse A-3 Ignition Voltage to Power Source Connecto
7	RED/BLK	KA013B	Switched Output Voltage from the Starter Cut Relay
8	RED/BLK	KA015B	Fuse A-4 Voltage (In Reverse) to Rear Combination Lamp (LH) and Rear Combination Lamp (RH)

Behind the Center of the I/P, Right of the Fuse/Relay Center (Cab)


B-271
B-218
B-272
A-1
B-273
Fuse/Relay Center Cab
A-4
B-250
B-1
B-603
X-4
X-5
X-6
X-7
X-8
X-1
X-9
B-276
X-2
X-14
B-4
X-15
B-275
X-10
F-15
F-1
X-16
X-3
F-34
F-16
X-11
X-12
F-31
X-13
F-30

4890920

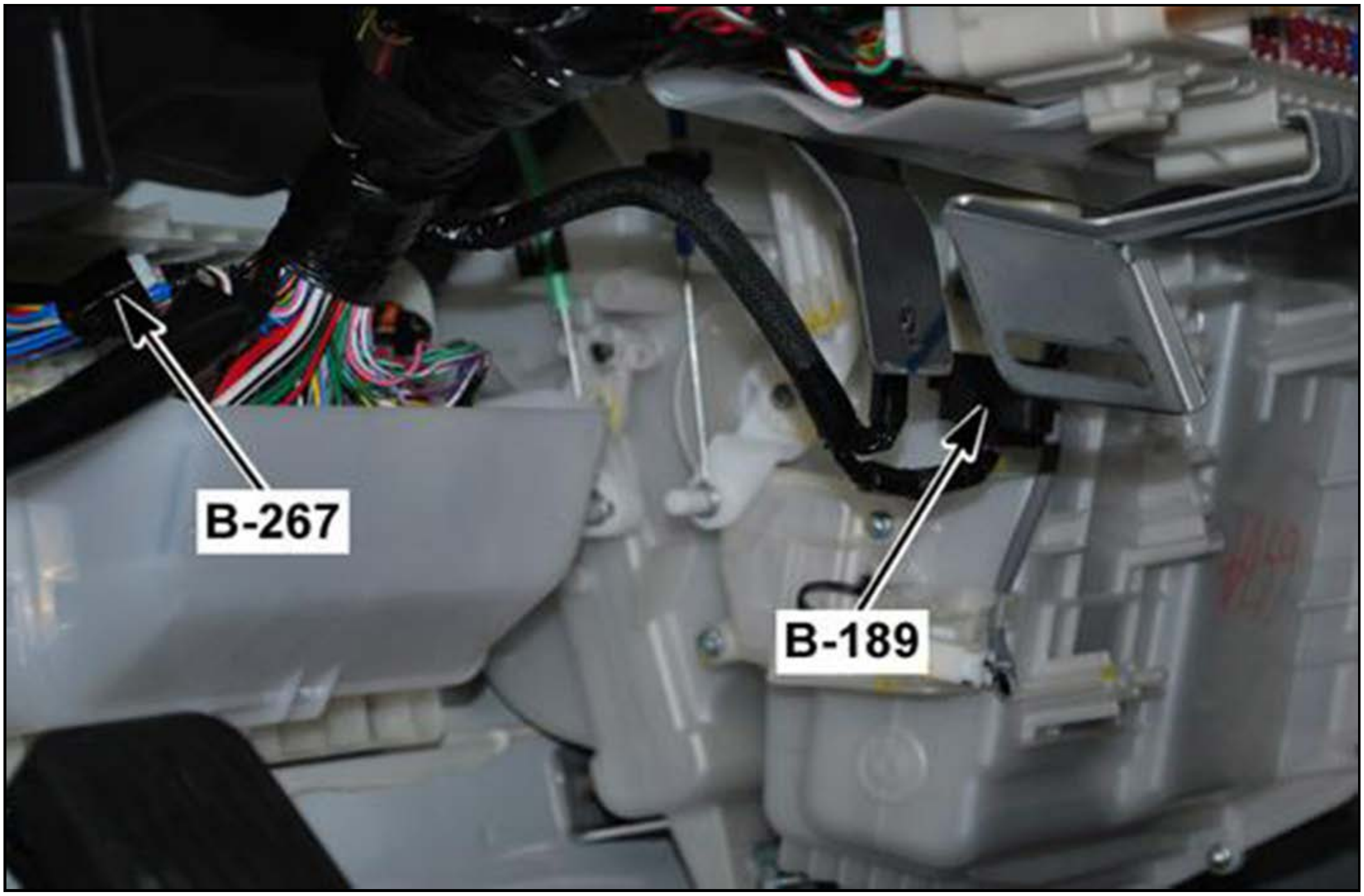
B-267 Splice Pack



4890929

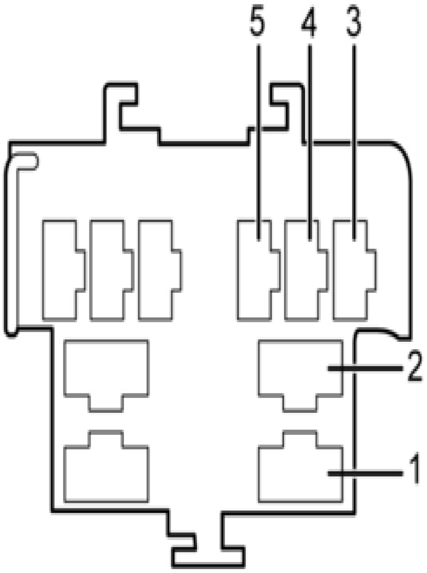
Connector Part Information		• 7383-3190 • 4-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	Shield	IZ033B	APP 2 Harness Shield
2	BLU	IC006B	APP 2 Low Reference
3	BLU/RED	IZ034B	APP 2 Shield
4	BLU	IC106B	APP 2 Low Reference

Between the Accelerator Pedal and the Bulkhead Pass Through



4890933

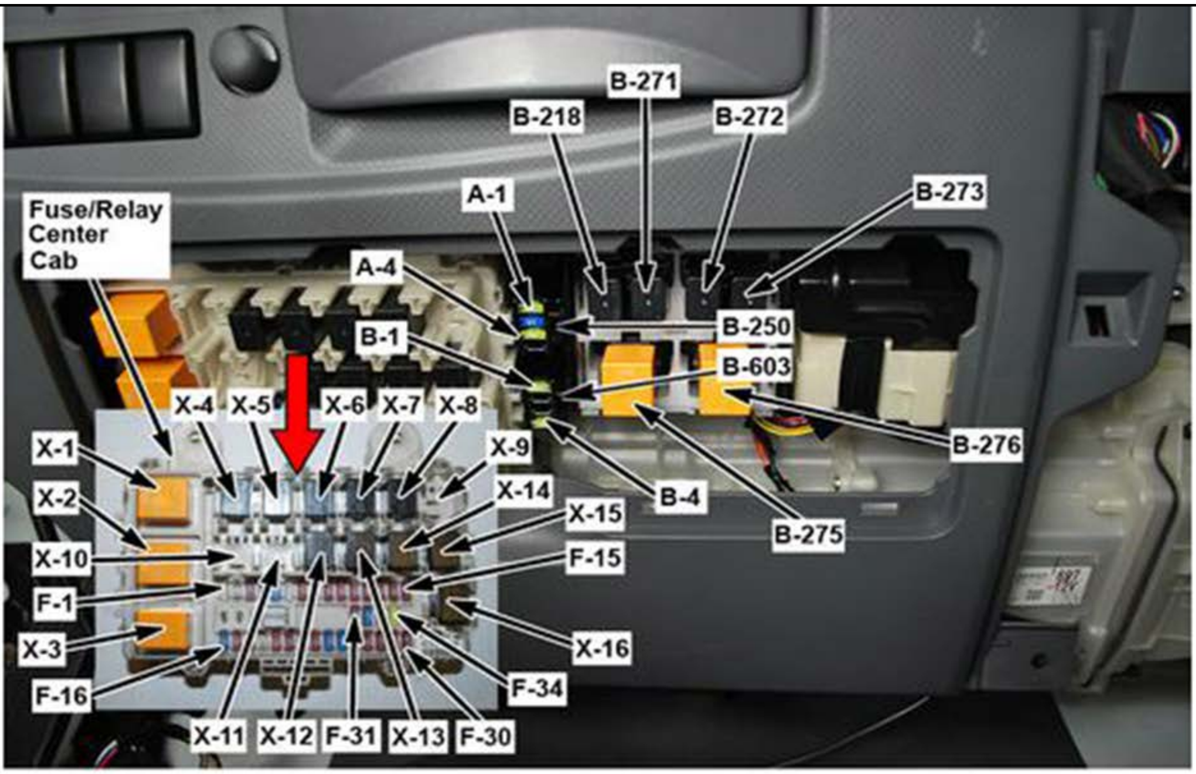
B-271 Stop Lamp Switch Relay



4890939

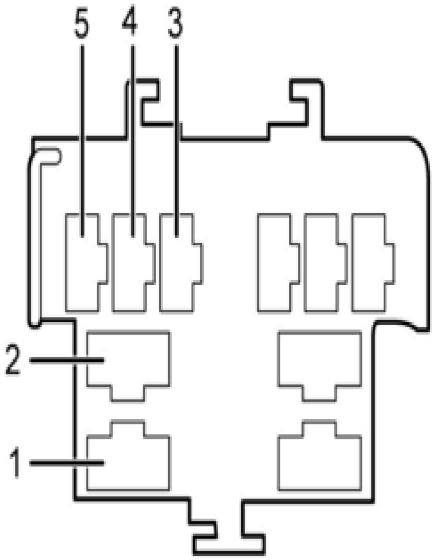
Connector Part Information		• 7354-5262 • 10-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK/ORN	IC101B	Ignition Voltage from Fuse F-20 (Input Voltage)
2	—	—	Not Used
3	BLK/ORN	IC102B	Ignition Voltage from Fuse F-20 (Coil Feed)
4	RED/WHT	IC017B	Switched Output Voltage to ECM
5	GRY	IC103B	Coil Control to Stop Lamp Switch Diode

Behind the Center of the I/P, Right of the Fuse/Relay Center (Cab)


B-271
B-218
B-272
A-1
B-273
Fuse/Relay Center Cab
A-4
B-250
B-1
B-603
X-4
X-5
X-6
X-7
X-8
B-276
X-1
X-9
X-2
X-14
B-4
X-15
B-275
X-10
F-15
F-1
X-16
X-3
F-34
F-16
X-11
X-12
F-31
X-13
F-30

4890920

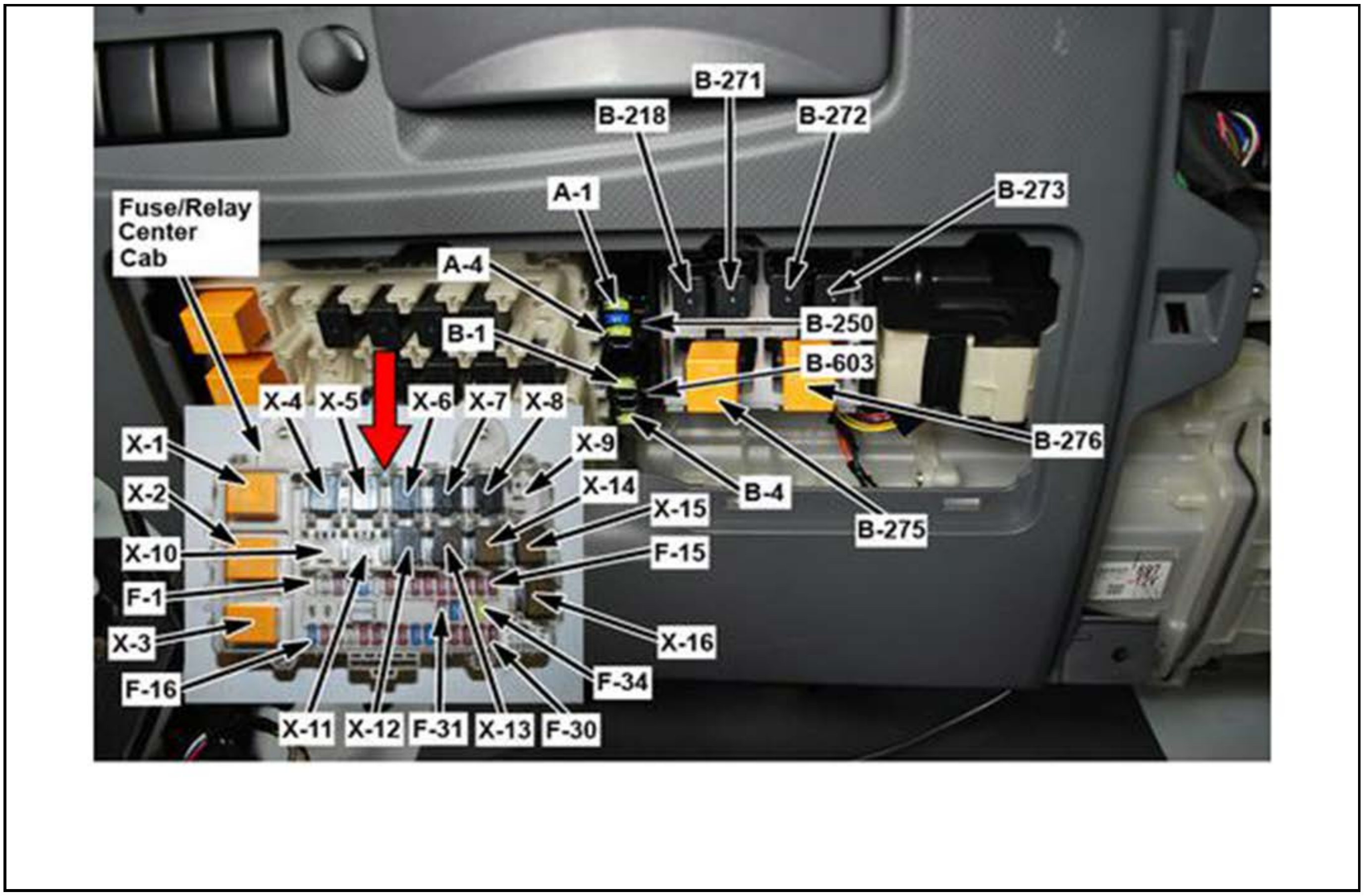
B-272 Cigar Lighter Relay



4890949

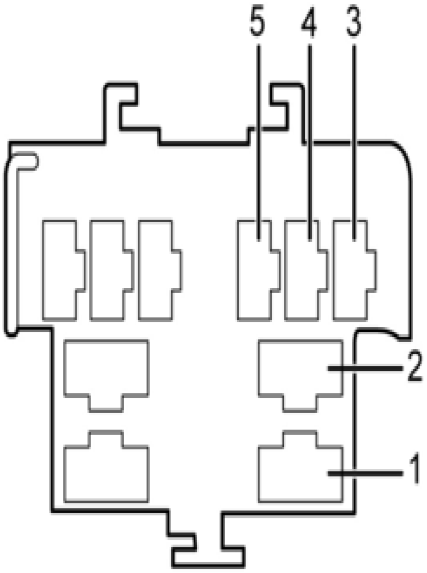
Connector Part Information	- 7354-5262 - 10-Way F (BLK)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK/YEL	PA019B	Battery Voltage from Fuse FL-12 (Input Voltage)
2	BLK/BLU	SA010B	Voltage to Fuse A-1 (Switched Output Voltage)
3	RED/YEL	SA040B	Ignition Voltage from Fuse F-24 (Coil Feed)
4	—	—	Not Used
5	BLK	SX010B	Ground to B-600 Splice Pack (Coil Control) (B- 51 Ground)

Behind the Center of the I/P, Right of the Fuse/Relay Center (Cab)


B-271
B-218
B-272
B-273
A-1
Fuse/Relay Center Cab
A-4
B-250
B-1
B-603
X-4
X-5
X-6
X-7
X-8
B-276
X-1
X-9
X-2
X-14
B-4
X-15
B-275
X-10
F-15
F-1
X-16
X-3
F-34
F-16
X-11
X-12
F-31
X-13
F-30

4890920

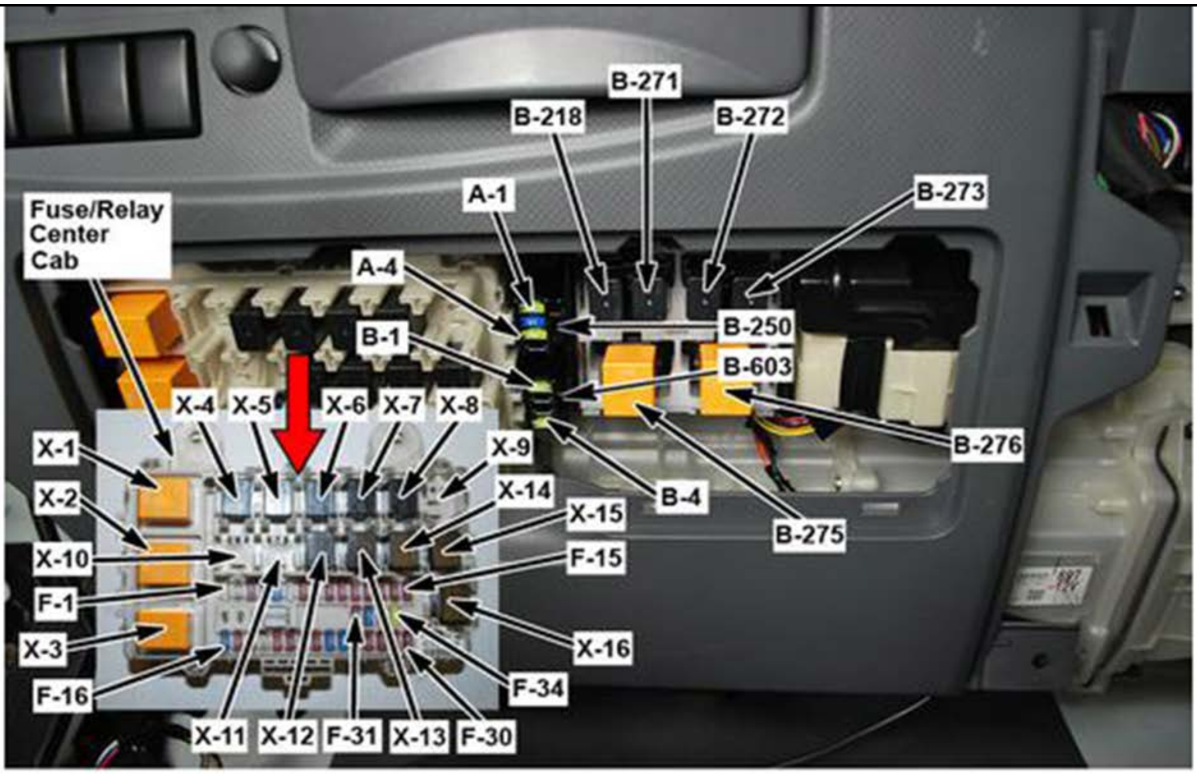
B-273 Reverse Lamp Relay



4890939

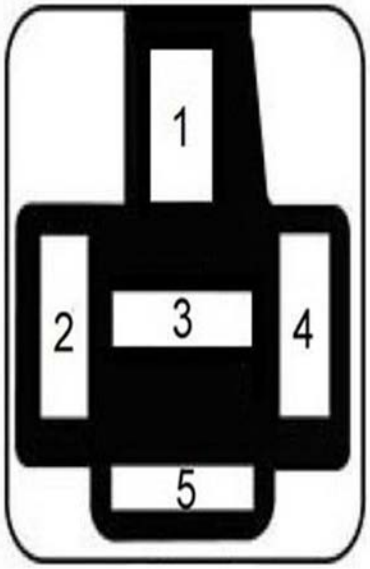
Connector Part Information	- 7354-5262 - 10-Way F (BLK)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT/RED	KA011B	Start and ON Signal from the Ignition Switch
2	RED/BLK	KA012B	Voltage to Fuses A-4, B-2, B-3 Fuse/Relay Center (Cab)
3	RED/BLK	KA016B	Battery Voltage from Fuse F-18 (Coil Feed)
4	—	—	Not Used
5	WHT/BLU	OA058B	To TCM (Coil Control)

Behind the Center of the I/P, Right of the Fuse/Relay Center (Cab)


B-271
B-218
B-272
B-273
A-1
Fuse/Relay Center Cab
A-4
B-250
B-1
B-603
X-4
X-5
X-6
X-7
X-8
B-276
X-1
X-9
X-2
X-14
B-4
X-15
B-275
X-10
F-15
F-1
X-3
X-16
F-34
F-16
X-11
X-12
F-31
X-13
F-30

4890920

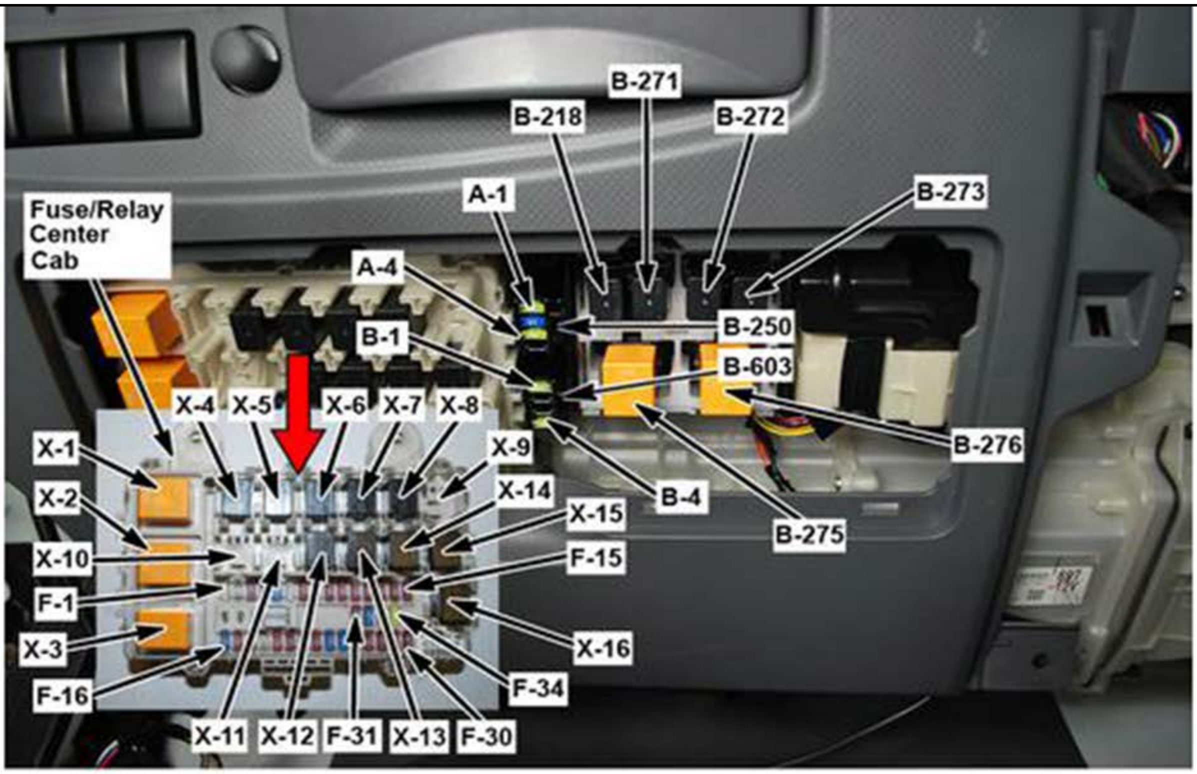
B-275 Mirror Heater Relay (RH)



4890952

Connector Part Information		• 7323-6055-30 • 5-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/YEL	WA027B	Mirror Heater (RH) Control (Switched Output Voltage)
2	YEL	WA103B	Heated Mirror Switch Signal (Coil Feed)
3	—	—	Not Used
4	BLK	WX106B	To J/B 2 (B-146 pin 8) (Coil Control)
5	RED/YEL	WA101B	Battery Voltage from Fuse B-4 (In-put Voltage)

Behind the Center of the I/P, Right of the Fuse/Relay Center (Cab)


B-271
B-218
B-272
A-1
B-273
Fuse/Relay Center Cab
A-4
B-250
B-1
B-603
X-4
X-5
X-6
X-7
X-8
X-1
X-9
B-276
X-2
X-14
B-4
X-15
B-275
X-10
F-15
F-1
X-16
X-3
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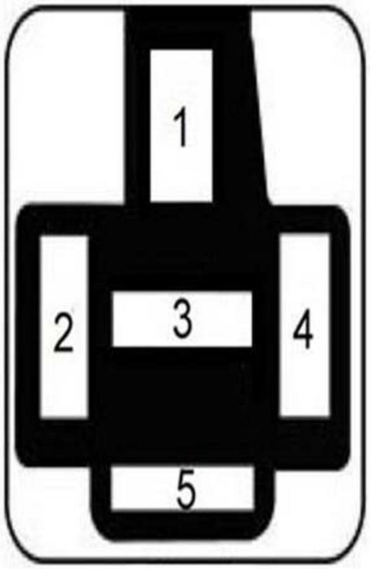
F-16
X-11
X-12
F-31
X-13
F-30

4890920

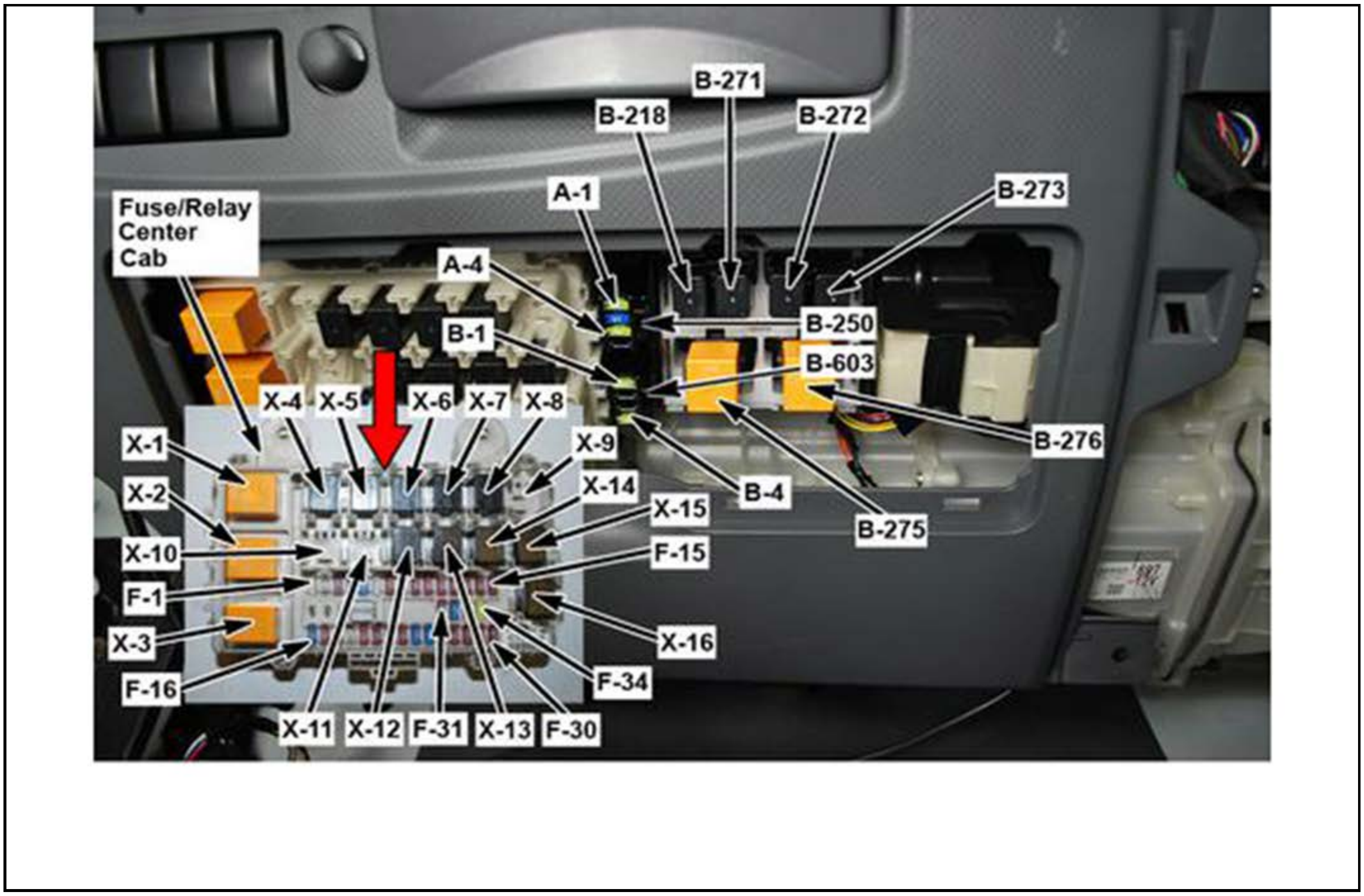
B-276 Mirror Heater Relay (LH)



4890952

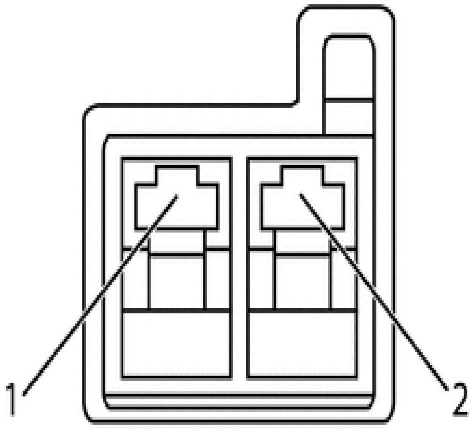
Connector Part Information	• 7323-6055-30 • 5-Way F (BLK)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/YEL	WA026B	Mirror Heater (LH) Control (Switched Output Voltage)
2	YEL	WA104B	Heated Mirror Switch Signal (Coil Feed)
3	—	—	Not Used
4	BLK	WX101B	To J/B 2 (B-145 pin 10) (Coil Control)
5	RED	WA102B	Battery Voltage from Fuse B-1 (In-put Voltage)

Behind the Center of the I/P, Right of the Fuse/Relay Center (Cab)


B-271
B-218
B-272
B-273
A-1
Fuse/Relay Center Cab
A-4
B-250
B-1
B-603
X-4
X-5
X-6
X-7
X-8
B-276
X-1
X-9
X-2
X-14
X-15
B-4
B-275
X-10
F-15
F-1
X-16
X-3
F-34
F-16
X-11
X-12
F-31
X-13
F-30

4890920

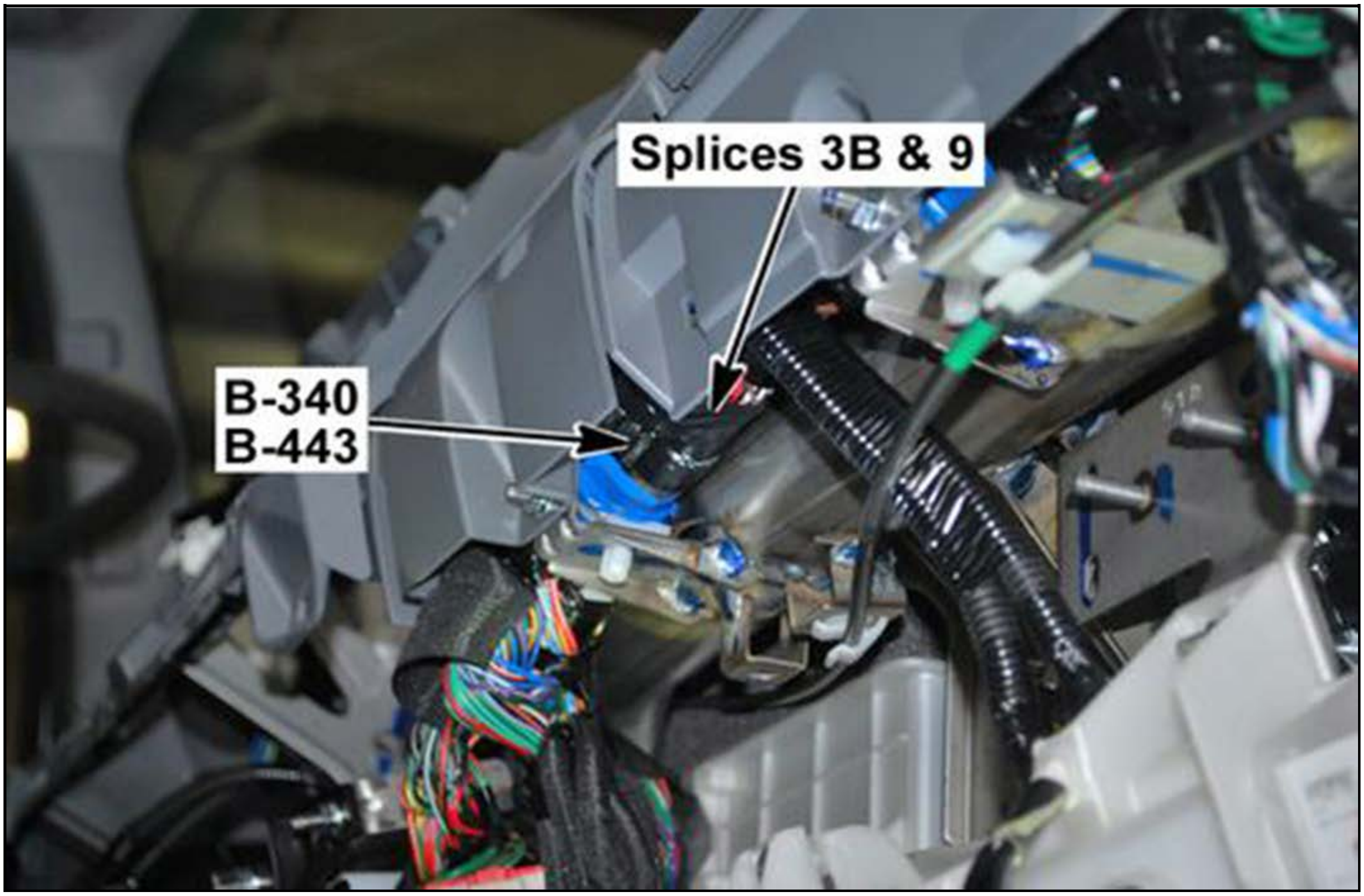
B-340 Stop Lamp Switch Diode



4890964

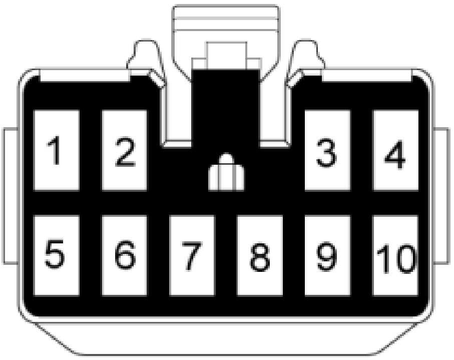
Connector Part Information		• 7323-9025-30 • 2-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRY	IC103B	Stop Lamp Switch Relay (Coil Control) (In)
2	GRN/WHT	IC013B	Stop Lamp Switch Relay (Coil Control) (Out)

In the Center of the I/P, Between the Blower Resistor and Junction Block 2. Taped in the Main Harness



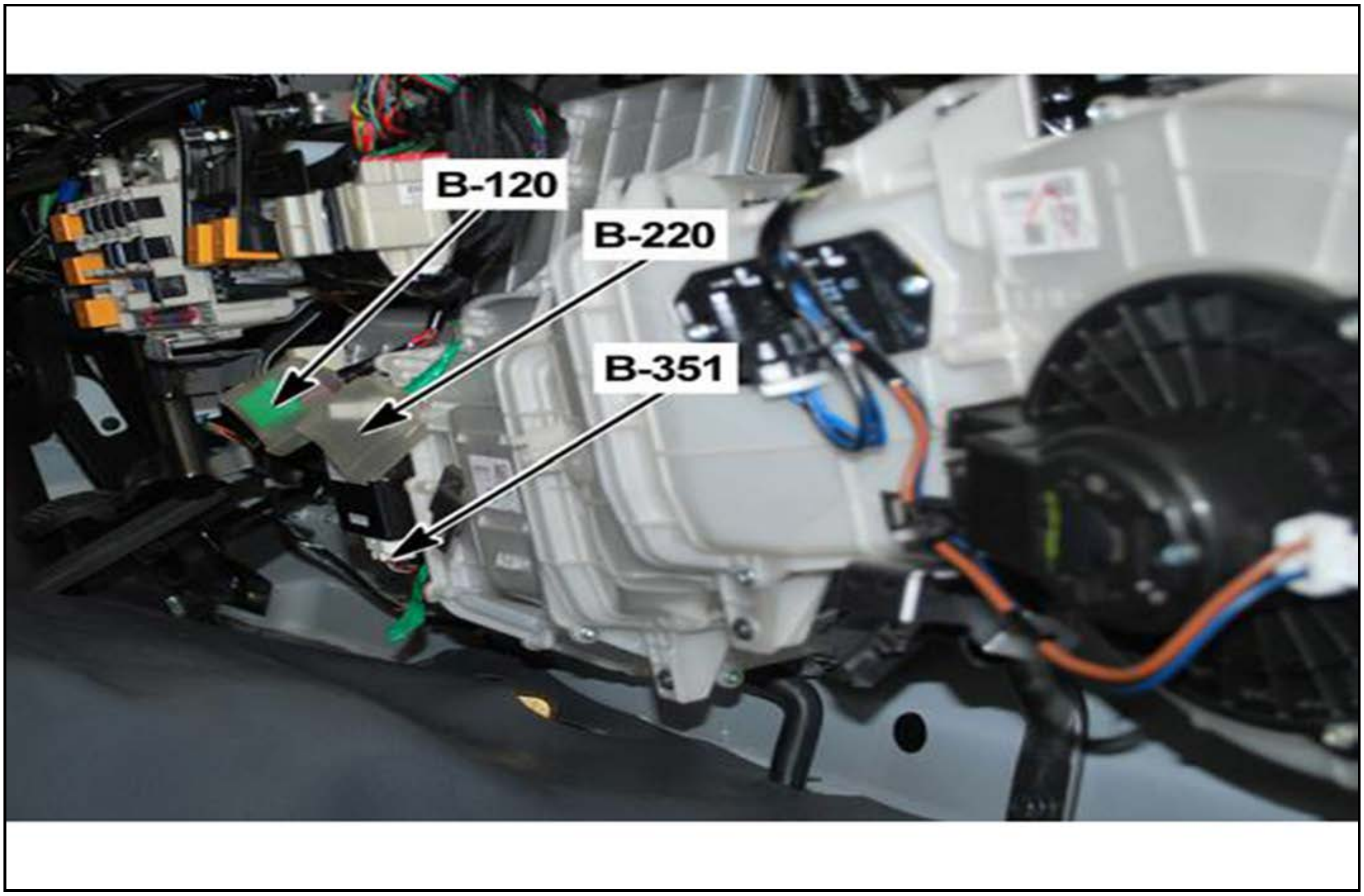
4890972

B-351 Remote Keyless Entry (RKE) Module



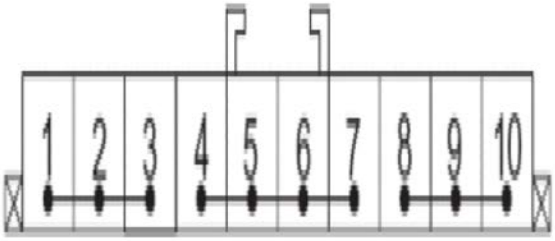
Connector Part Information		- 7383-1100 - 10-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/BLU	HC004B	Flash Lights Command
2	—	—	Not Used
3	RED/GRN	HC005B	Door Unlock
4	GRN/WHT	HC007B	Door Lock
5	BLK	HZ001B	Ground to B-601 Splice Pack (B-51 Ground)
6	GRY	HC003B	Door Jamb Switch Signal
7	RED/BLK	HC001B	Ignition Voltage from Fuse F-18 from J/B 1 (B-131 pin 13)
8	PNK/BLU	FB005B	Key Reminder Switch Signal
9	RED/GRN	HC006B	Door Unlock Position Switch
10	GRN	HC002B	Battery Voltage from Fuse F-4 from J/B 2 (B-143 pin 10)

Center of the Instrument Panel, Below the Fuse/Relay Center (Cab)



4890989

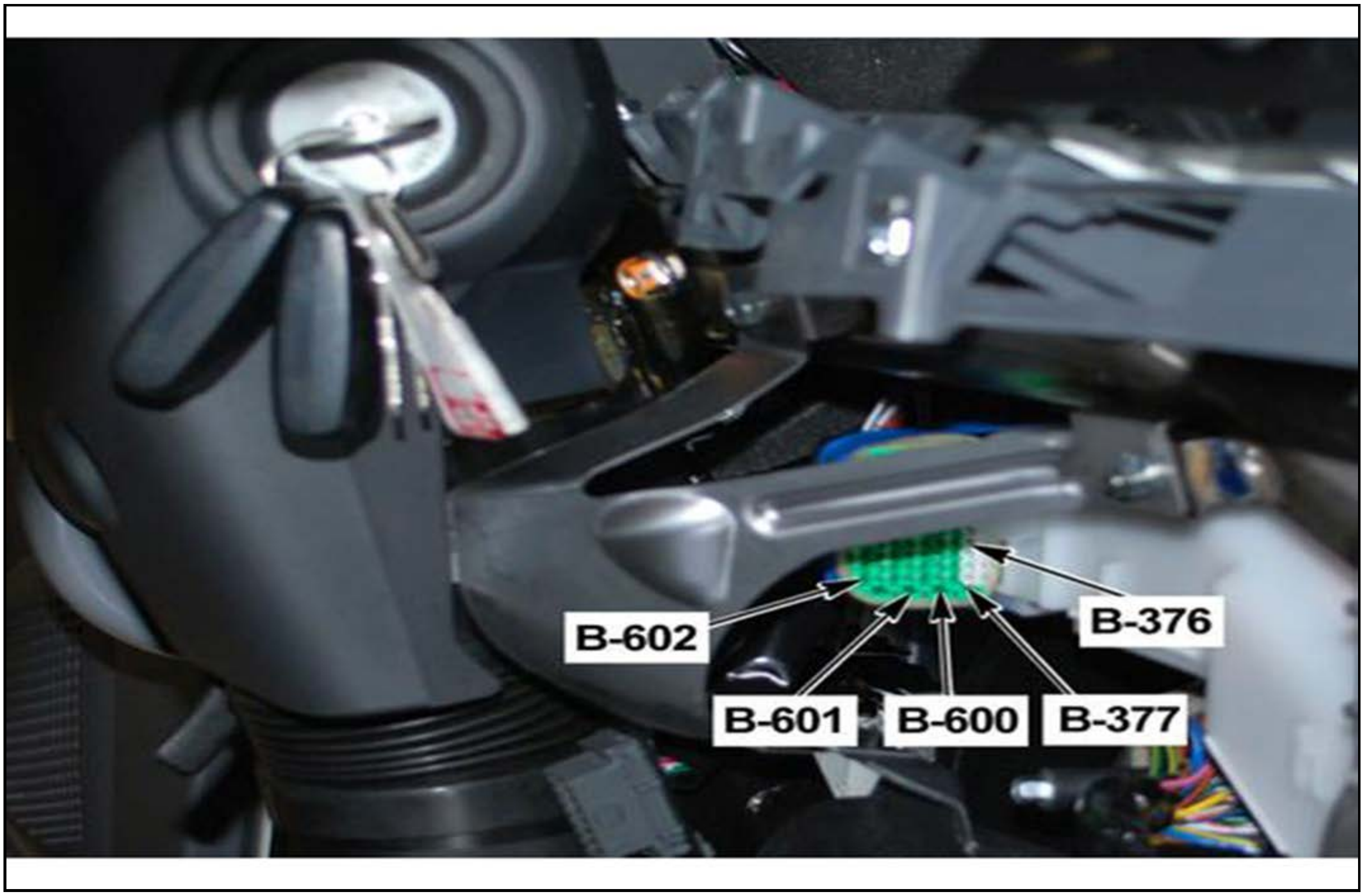
B-376 Splice Pack



4891025

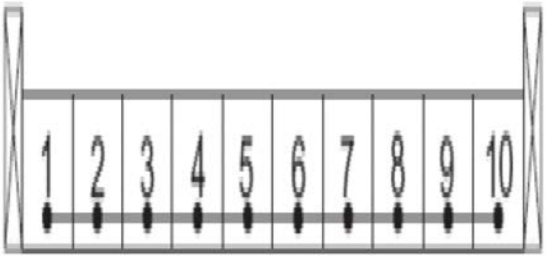
Connector Part Information		- 7387-3360 - 10-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT/BLU	AA010B	Fuse F-9 Voltage (Headlamp Switch ON) from Fuse/ Relay Center (Cab) (B-16 pin 2)
2	WHT/BLU	AA044B	Fuse F-9 Voltage (Headlamp Switch ON) to DRL Module
3	WHT/BLU	AA064B	Fuse F-9 Voltage (Headlamp Switch ON) to Headlamp (LH)
4	ORN	OA088B	Battery Voltage from Fuse F-35 to TCM
5	ORN	OA089B	Battery Voltage from Fuse F-35 to TCM
6	ORN	OA090B	Battery Voltage from Fuse F-35 from Fuse/Relay Center
7	—	—	Not Used
8	WHT/RED	AA065B	Battery Voltage from Fuse F-11 to Headlamp (RH)
9	WHT/RED	AA045B	Battery Voltage from Fuse F-11 to DRL Module
10	WHT/RED	AA012B	Battery Voltage from Fuse F-11 from Fuse/Relay Center (Cab) (B-19 pin 7)

Right Side of the Steering column, Above the Data Link Connector (DLC)


B-602
B-376
B-601
B-600
B-377

4891030

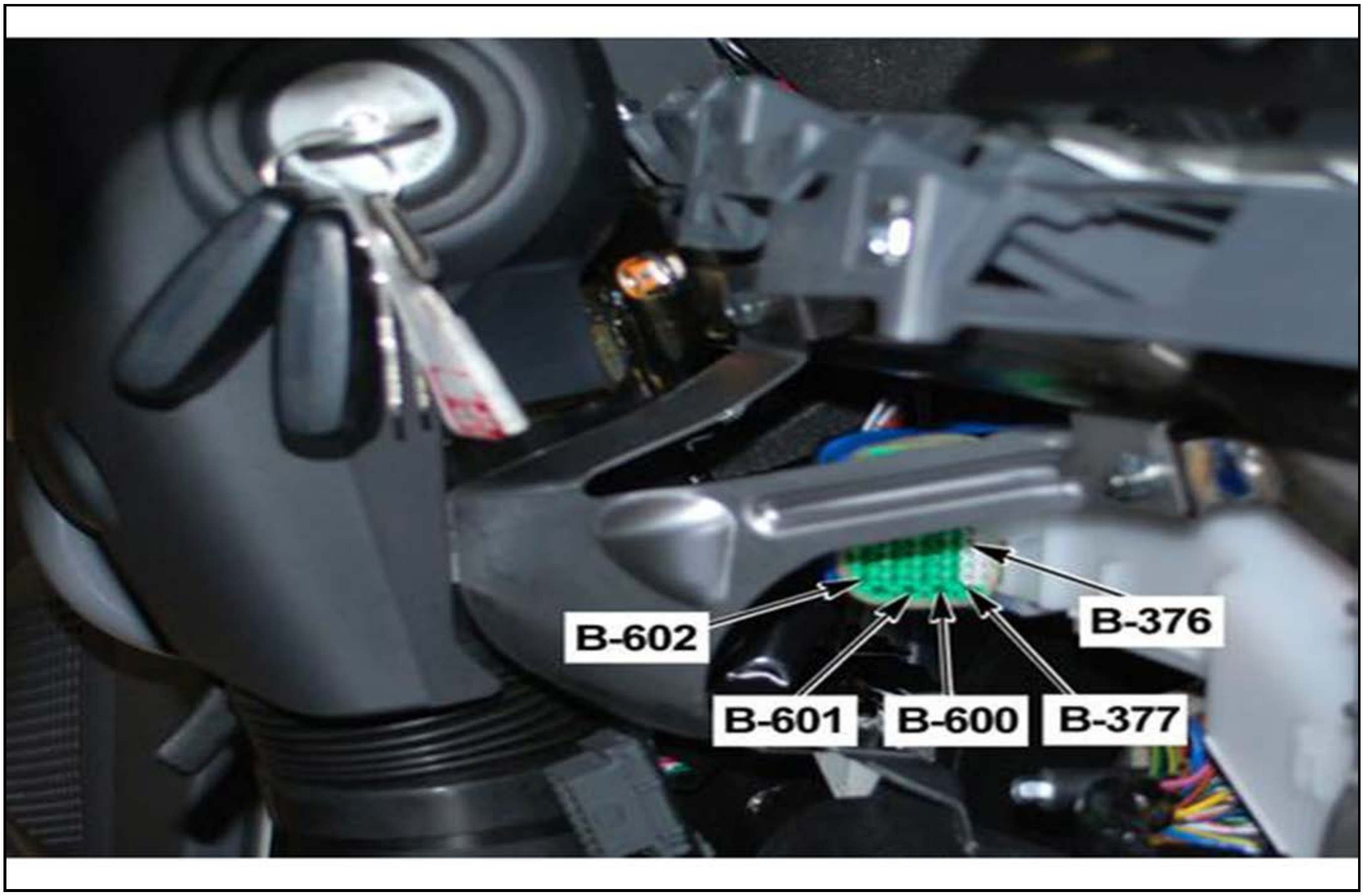
B-377 Splice Pack



4891043

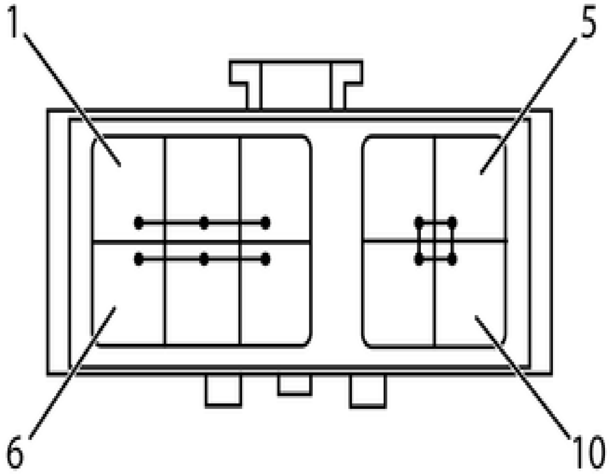
Connector Part Information		- 7387-3359-60 - 10-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	ZZ050B	Ground to B-600 Splice Pack (B-51 Ground)
2	BLK	SX011B	Ground from Power ACC Relay
3	BLK	AX003B	Ground from Combination Switch (Headlamps)
4	BLK	IX004B	Ground from Rear Dome Lamp Switch
5	BLK	RX001B	Ground from Radio
6	BLK	JX007B	Ground from Flasher Module
7	BLK	JX001B	Ground from Combination Switch (Turn Signals)
8	BLK	JX002B	Ground from Hazard Switch
9	BLK	JX004B	Ground from Side Turn Signal Lamp (LH)
10	BLK	FY001B	Ground from Key Minder Switch

Right Side of the Steering column, Above the Data Link Connector (DLC)


B-602
B-376
B-601
B-600
B-377

4891030

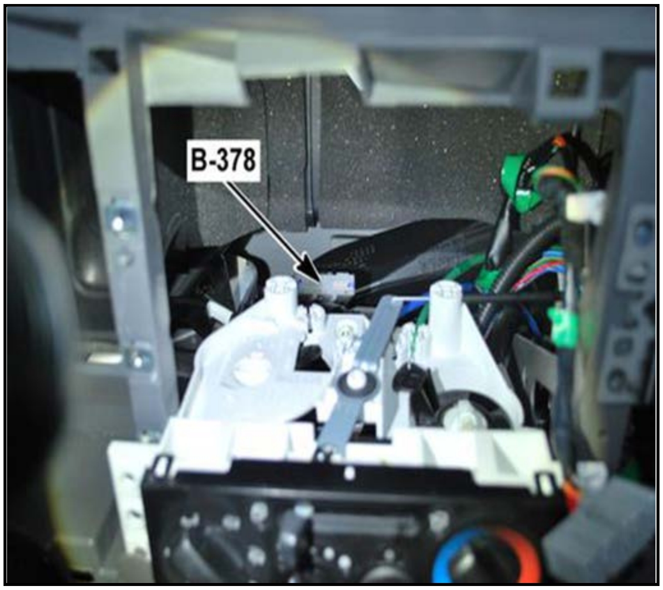
B-378 Splice Pack



4891046

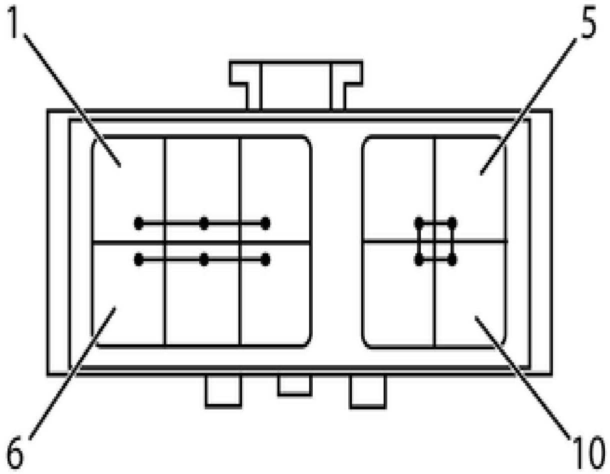
Connector Part Information		• 7323-7500 • 10-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT/RED	PA018B	Battery Voltage from Fuse FL-8 to Fuse/Relay Center (Cab) (B-26 pin 5)
2	WHT/RED	AA042B	Battery Voltage from Fuse FL-8 to Fuse/Relay Center (B-217 pin 1)
3	WHT/RED	PA005B	Battery Voltage from Fuse FL-8 from Fuse/Relay Center
4	BLK/YEL	PA002B	Battery Voltage from Fuse FL-12 to Fuse/Relay Center
5	BLK/YEL	PA019B	Battery Voltage from Fuse FL-12 to Cigar Lighter Relay
6	GRN/BLK	PA067B	Battery Voltage from Fuse F-32 to Fuse/Relay Center (Cab) (B-26 pin 4)
7	GRN/BLK	PA017B	Battery Voltage from Fuse F-32 from Fuse/Relay Center
8	GRN/BLK	PA047B	Battery Voltage from Fuse F-32 from Fuse/Relay Center
9	—	—	Not Used
10	BLK/YEL	PA003B	Battery Voltage from Fuse FL-12 to Ignition Switch

In the Center of the I/P, Behind the HVAC Panel



4891049

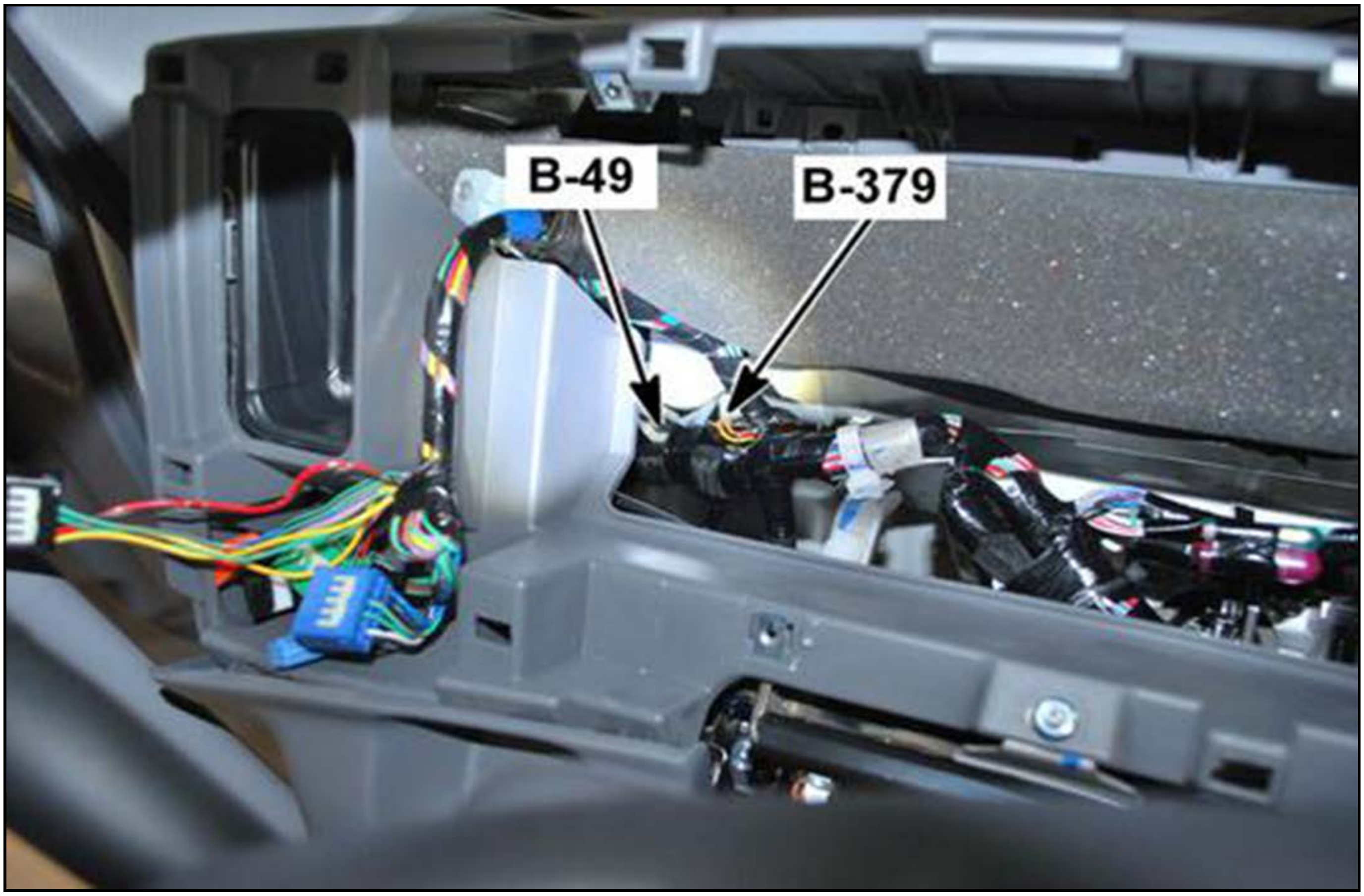
B-379 Splice Pack



4891046

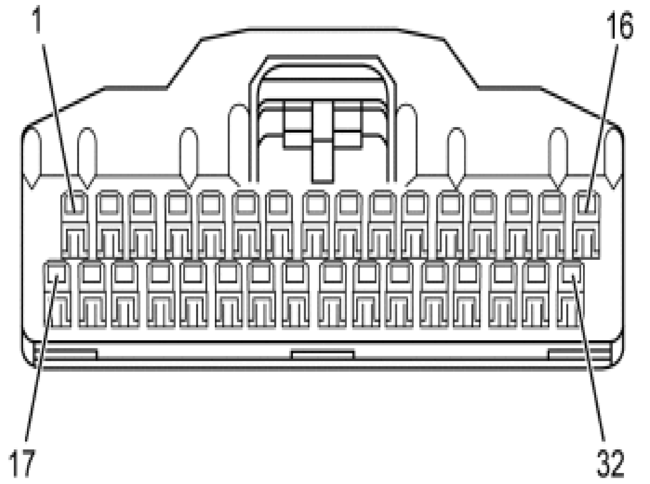
Connector Part Information		• 7323-7500 • 10-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/YEL	WA026B	Mirror Heater Relay (LH) (Switched Output Voltage)
2	RED/YEL	WA016B	Mirror Heater Relay (LH) (Switched Output Voltage) to Lower Mirror Heater
3	YEL/RED	WA118B	Mirror Heater Relay (LH) (Switched Output Voltage) to Upper Mirror Heater
4	BLK	SX001B	Ground for Power Outlet Upper
5	BLK	ZZ040B	Ground to B-60
6	RED/YEL	WA027B	Mirror Heater Relay (RH) (Switched Output Voltage)
7	RED/YEL	WA017B	Mirror Heater Relay (RH) (Switched Output Voltage) to Lower Mirror Heater
8	YEL/RED	WA019B	Mirror Heater Relay (RH) (Switched Output Voltage) to Upper Mirror Heater
9	BLK	SX005B	Ground for Power Outlet Lower
10	BLK	ZZ053B	Ground to B-51

Under the Left Side of the Instrument Panel Cluster



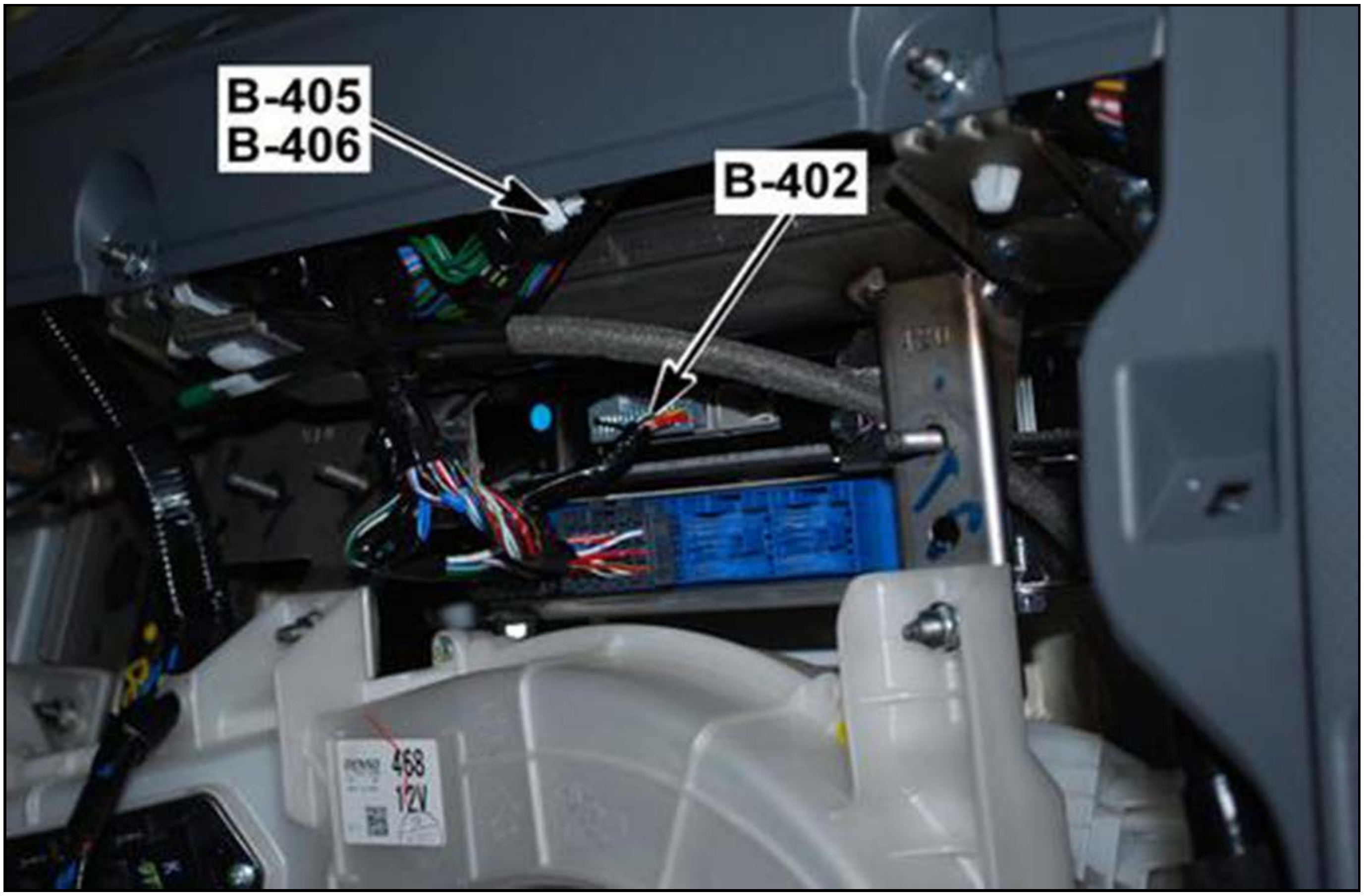
4891076

B-402 Mimamori Module



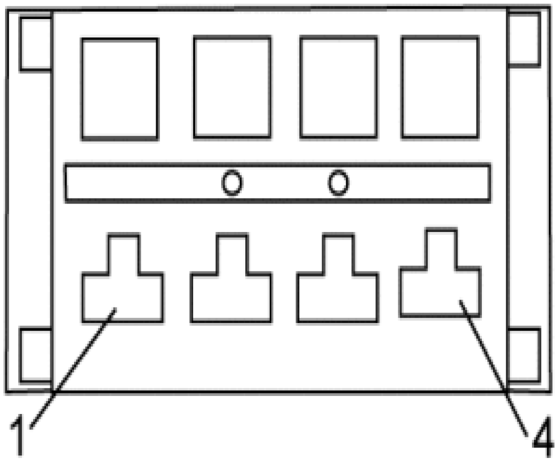
Connector Part Information		- MX34032SF-1 - 32-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/YEL	KF022B	Ignition Voltage from Fuse F-21
2	RED/YEL	KF007B	Key SD Signal
3	LT BLU	KF018B	ISO 14230 communication
4	GRN/WHT	TF045B	ISO 15765 CAN 2 Bus (High)
5	BLK	KU003B	Ground to J/B 2 (B-144 pin 7) (B-53 Ground)
6	BLU/WHT	TF027B	Vehicle CAN 1 Bus (High)
7–15	—	—	Not Used
16	BLK/BLU	KF021B	Battery Voltage from Fuse F-22
17	RED/YEL	KF003B	Ignition Voltage from Fuse F-24
18	RED/GRN	KF008B	Key RD Signal
19	RED/WHT	KF004B	Mode CN Signal
20	—	—	Not Used
21	GRN	TF046B	ISO 15765 CAN 2 Bus (Low)
22	—	—	Not Used
23	BLU	TF028B	Vehicle CAN 1 Bus (Low)
24–25	—	—	Not Used
26	RED	KF006B	Key CH Change
27–32	—	—	Not Used

Right Side of the I/P, Above the Blower Motor


B-405
B-406
B-402
468
12V

4891085

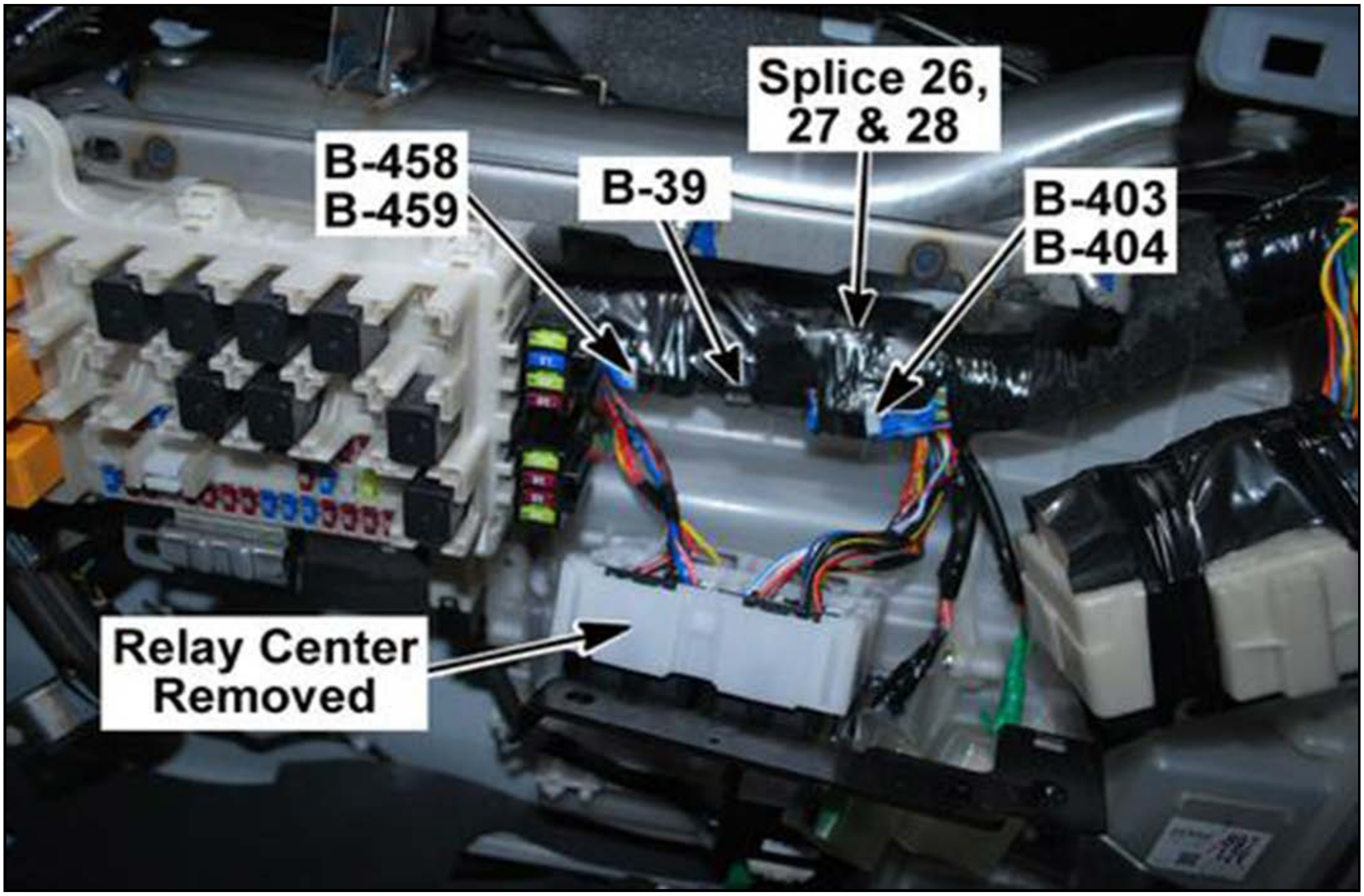
B-403 J1939 CAN 1 Low Splice Pack



4890929

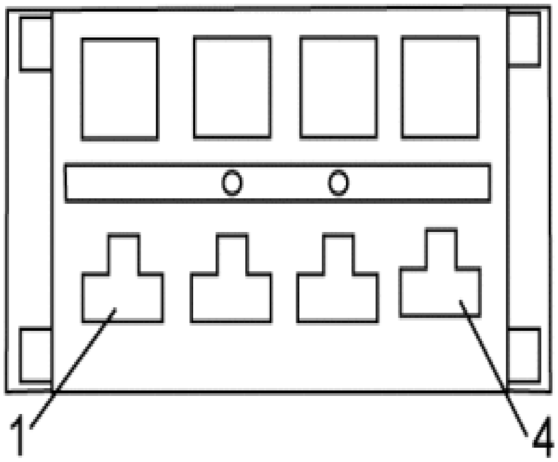
Connector Part Information		• 7383-3190 • 4-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU	TF002B	J1939 CAN 1 Low Serial Data to B-459 Splice Pack
2	BLU	TF028B	J1939 CAN 1 Low Serial Data to Mimamori Module
3	BLU	TF034B	J1939 CAN 1 Low Serial Data to B-407 Splice Pack
4	BLU	TF141B	J1939 CAN 1 Low Serial Data to Isuzu Health Report RS232 Connector

Center of the I/P, Behind the Fuse/Relay Center (Cab)


Splice 26, 27 & 28
B-458
B-459
B-39
B-403
B-404
Relay Center Removed

4891092

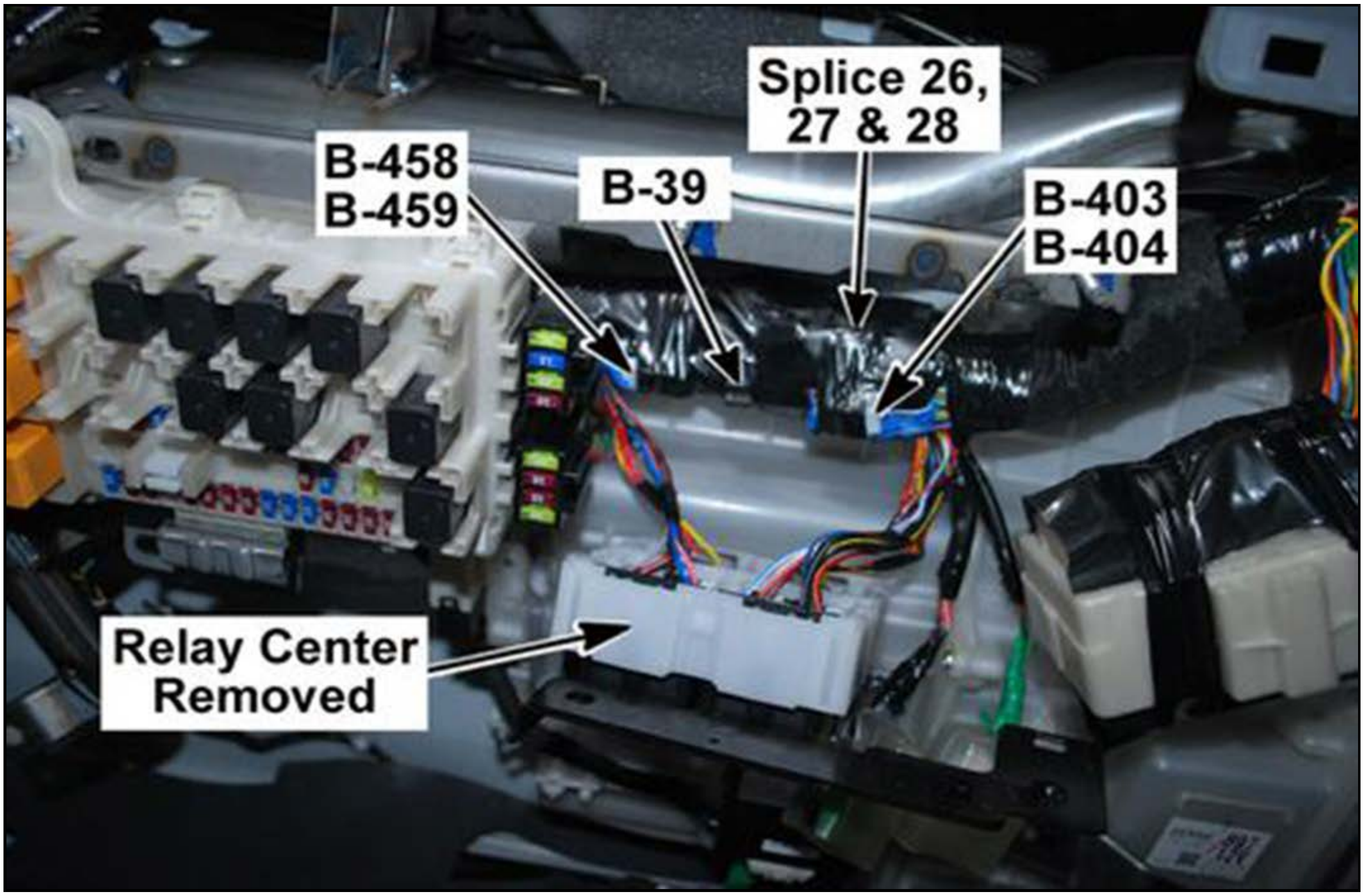
B-404 J1939 CAN 1 High Splice Pack



4890929

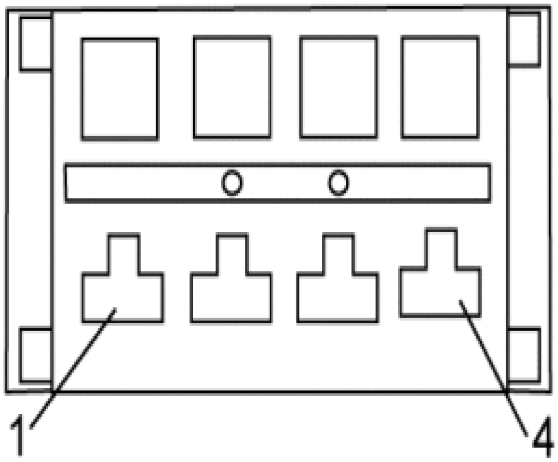
Connector Part Information		- 7383-3190 - 4-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU/WHT	TF001B	J1939 CAN 1 High Serial Data to B-458 Splice Pack
2	BLU/WHT	TF027B	J1939 CAN 1 High Serial Data to Mimamori Module
3	BLU/WHT	TF033B	J1939 CAN 1 High Serial Data to B-408 Splice Pack
4	BLU/WHT	TF142B r	J1939 CAN 1 High Serial Data to Health Report RS232 Connector

Center of the I/P, Behind the Fuse/Relay Center (Cab)


Splice 26, 27 & 28
B-458
B-459
B-39
B-403
B-404
Relay Center Removed

4891092

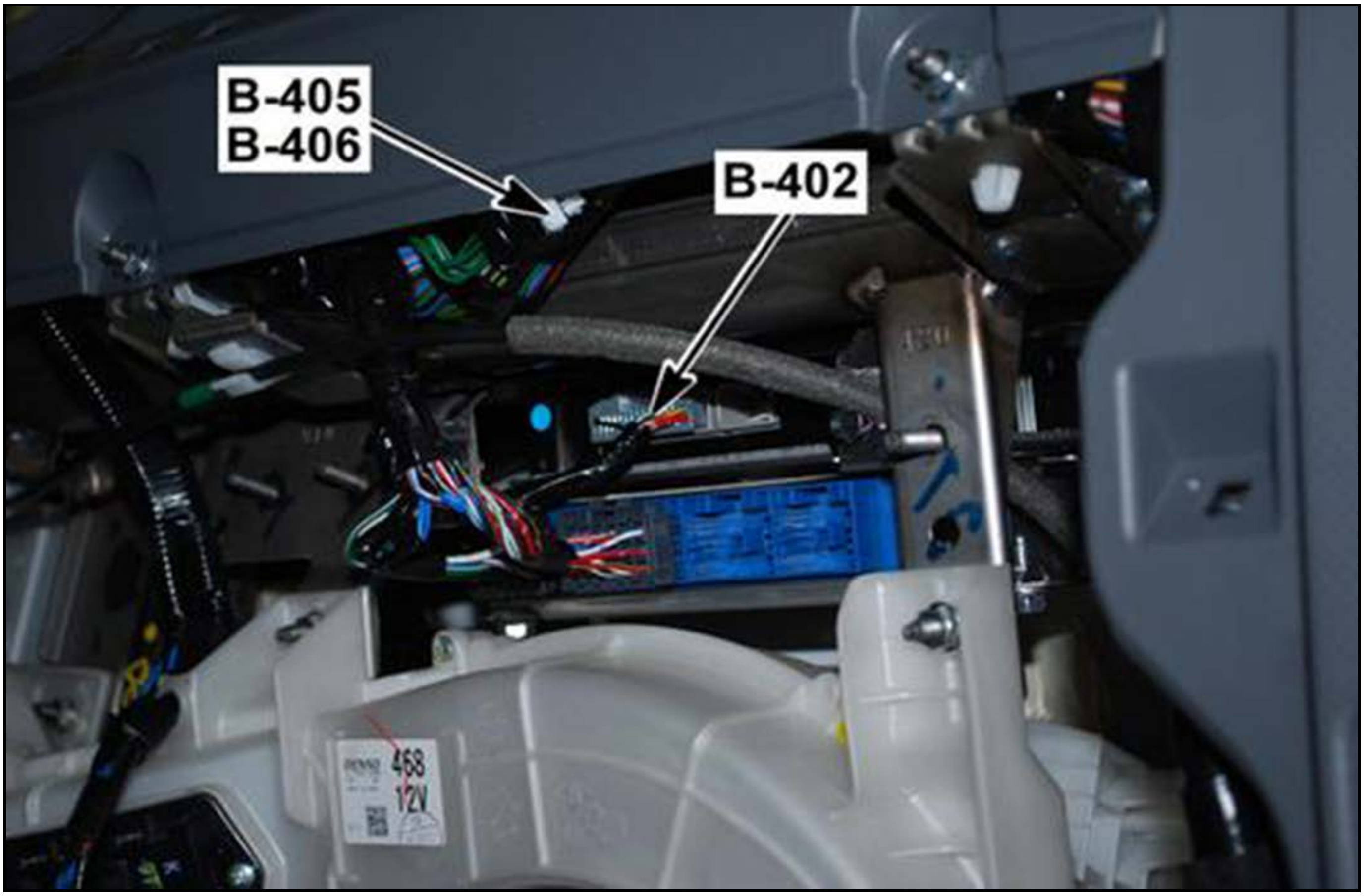
B-405 ISO 15765 CAN 2 Low Splice Pack



4890929

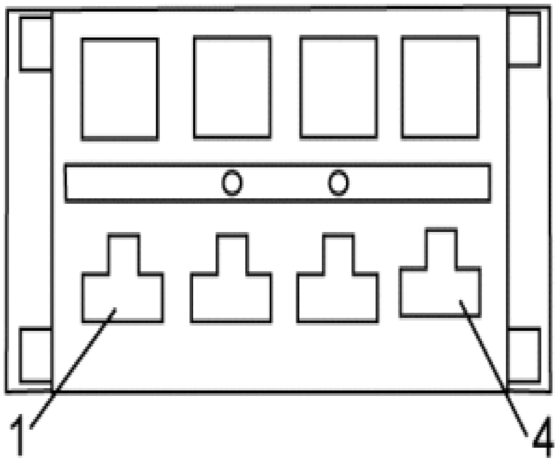
Connector Part Information		• 7383-3190 • 4-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN	TF044B	ISO 15765 CAN Low Serial Data to B-235 CAN 2 Splice Pack
2	—	—	J1939 CAN 1 High Serial Data to Mimamori Module
3	GRN	TF032B	ISO 15765 CAN Low Serial Data to TCM
4	GRN	TF046B	ISO 15765 CAN Low Serial Data to Mimamori Module

Right Side of the I/P, Above the Blower Motor


B-405
B-406
B-402
468
12V

4891085

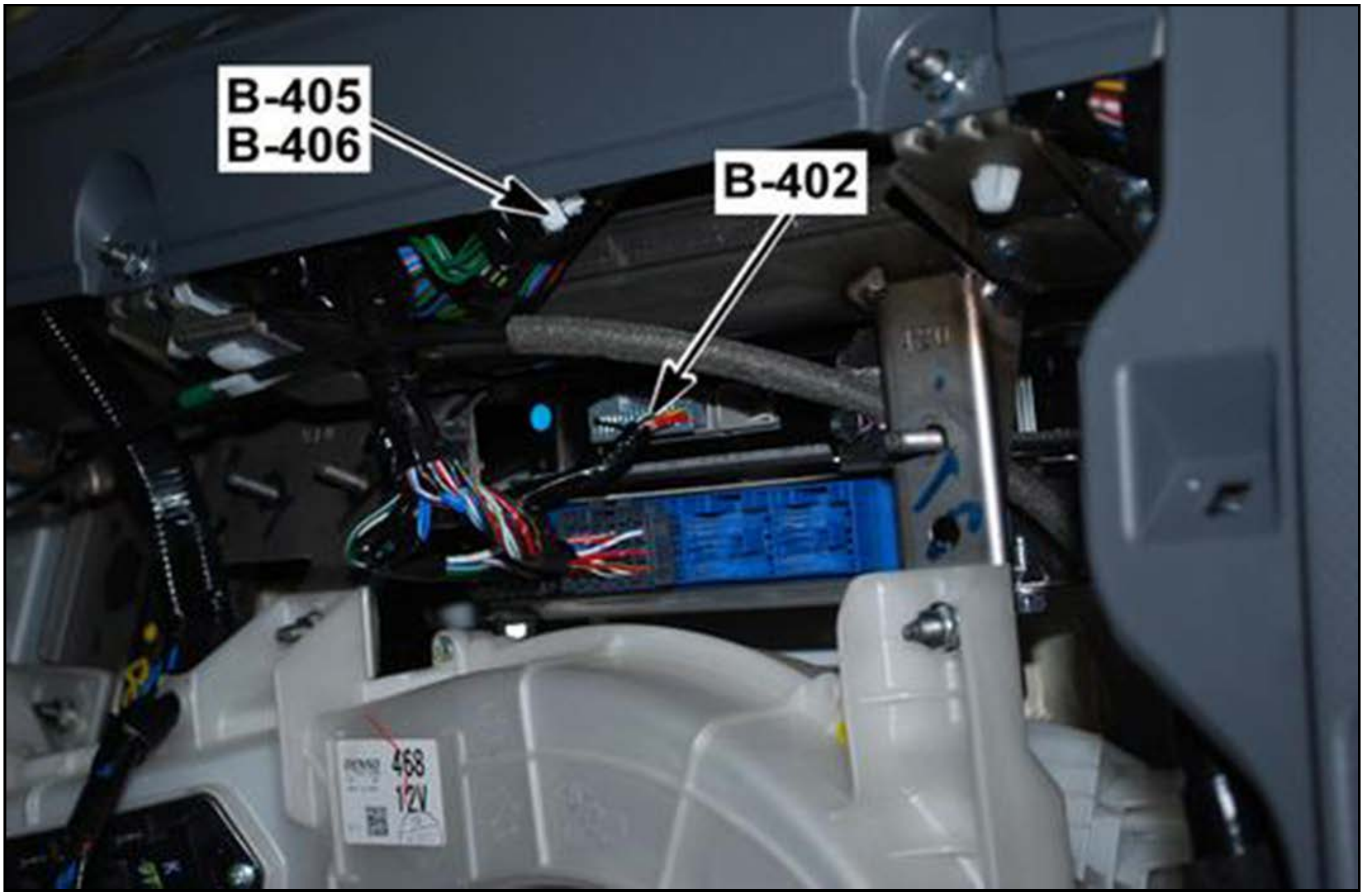
B-406 ISO 15765 CAN 2 High Splice Pack



4890929

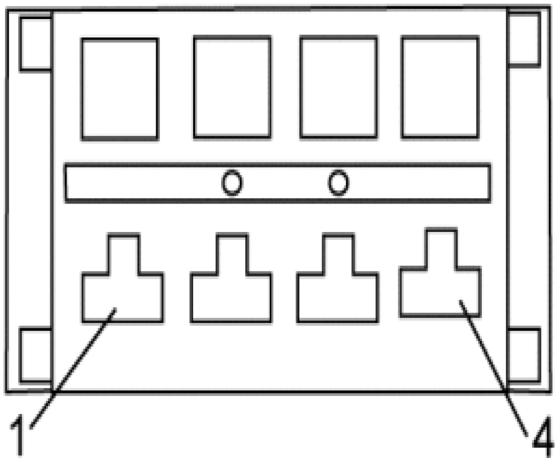
Connector Part Information		• 7383-3190 • 4-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/WHT	TF043B	ISO 15765 CAN High Serial Data to B-236 CAN 2 Splice Pack
2	—	—	Not Used
3	GRN/WHT	TF031B	ISO 15765 CAN High Serial Data to TCM
4	GRN/WHT	TF045B	ISO 15765 CAN High Serial Data to Mimamori Module

Right Side of the I/P, Above the Blower Motor


B-405
B-406
B-402
468
12V

4891085

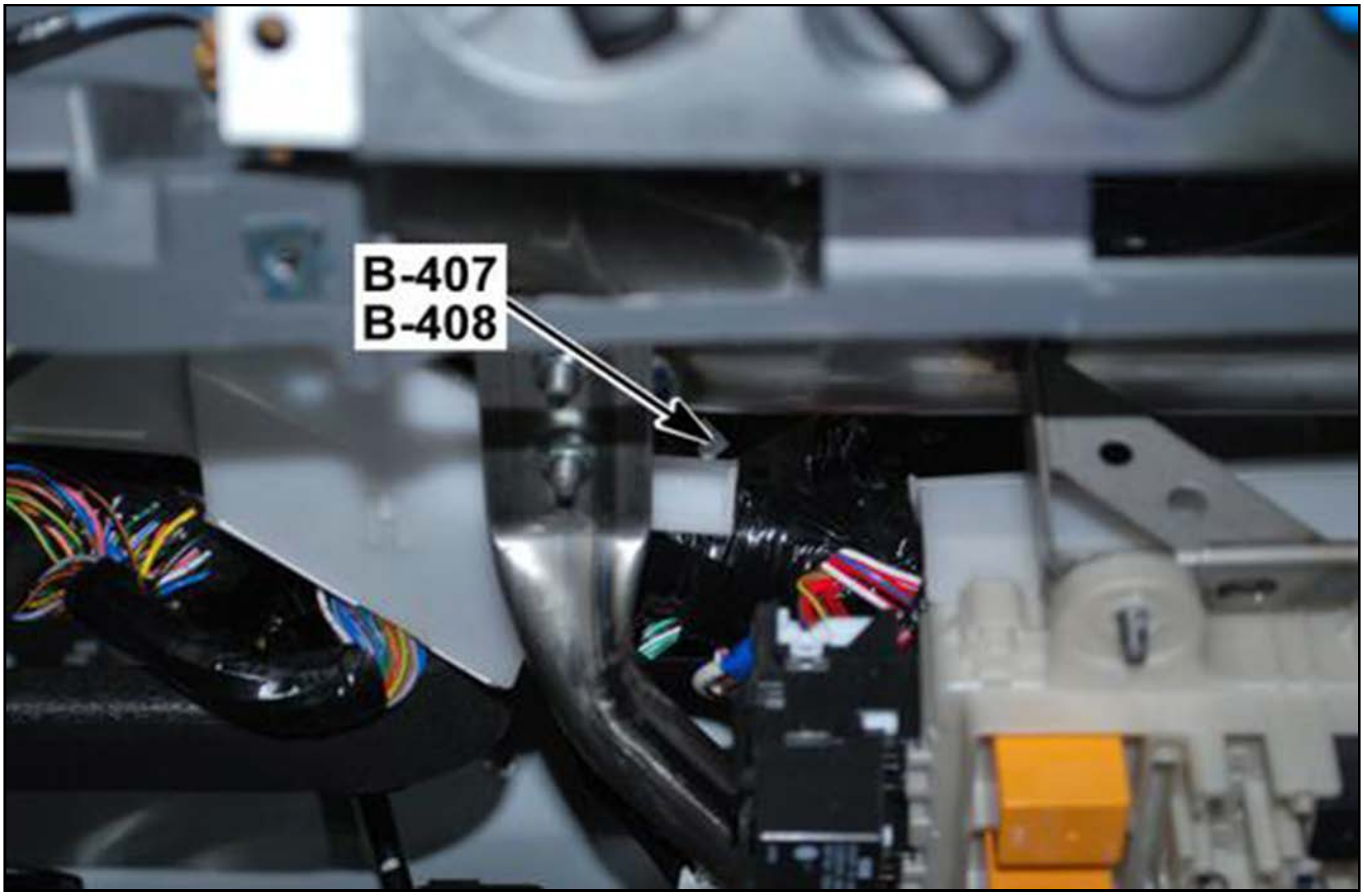
B-407 J1939 CAN 1 Low Splice Pack



4890929

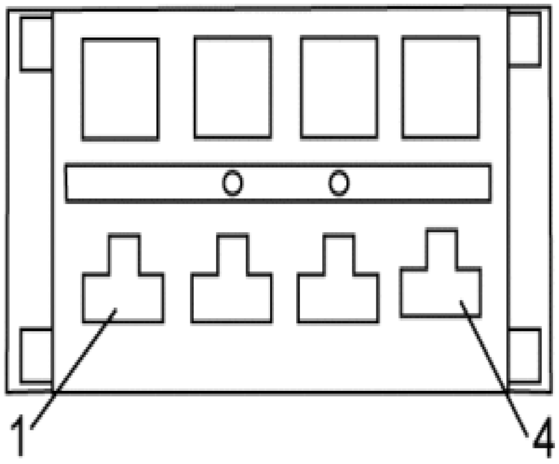
Connector Part Information		• 7383-3190 • 4-Way F (WHT)	
Pin	Wire Color	Circuit Number	Function
1	BLU	TF034B	J1939 CAN 1 Low Serial Data to B-403 Splice Pack
2	BLU	TF008B	J1939 CAN 1 Low Serial Data to IPC
3	BLU	TF038B	J1939 CAN 1 Low Serial Data to TCM
4	BLU	TF062B	J1939 CAN 1 Low Serial Data to FMS Module

To the Right of the Accelerator Pedal, to the Left of the Fuse/Relay Center (Cab)



4891096

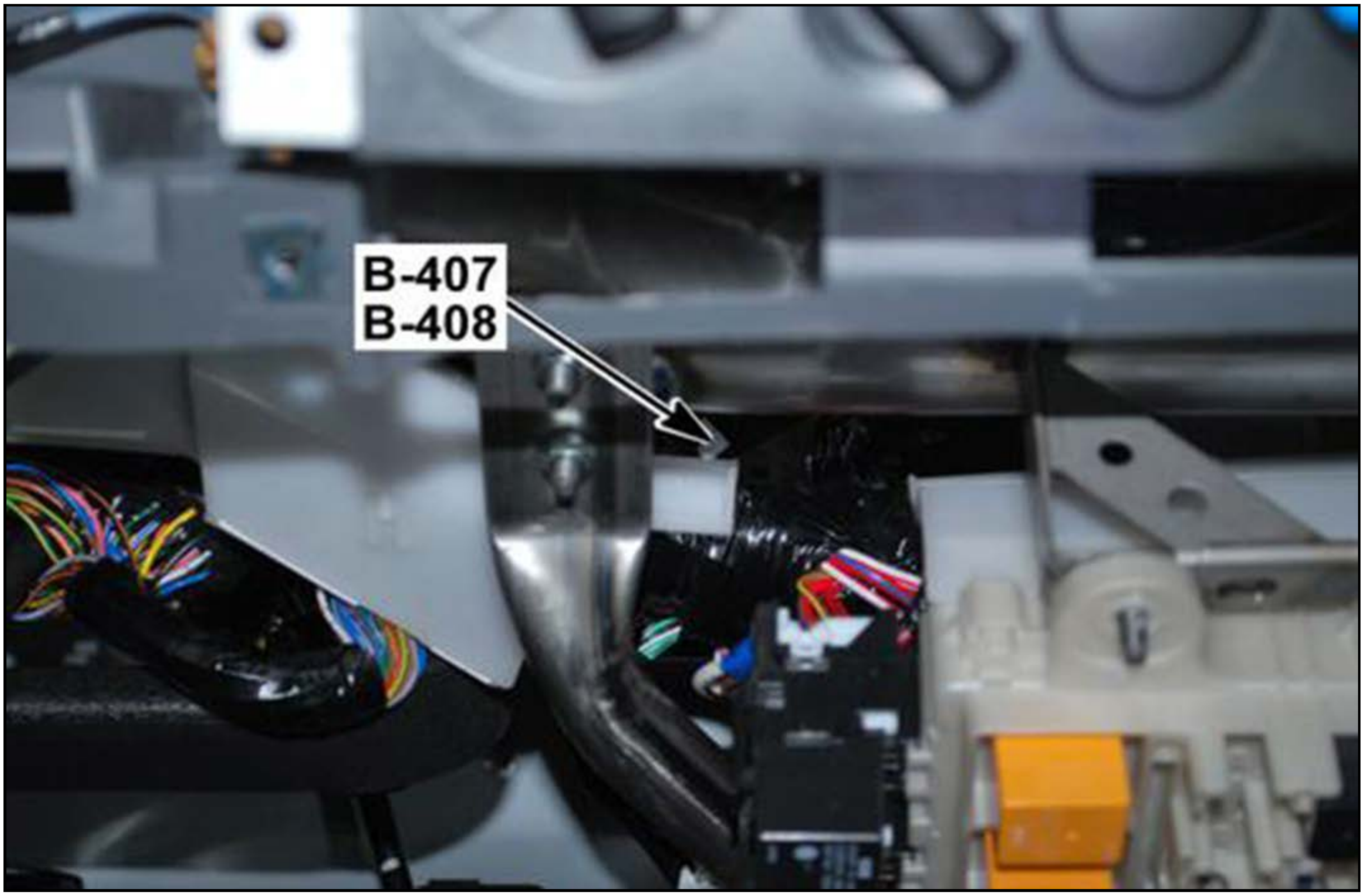
B-408 J1939 CAN 1 High Splice Pack



4890929

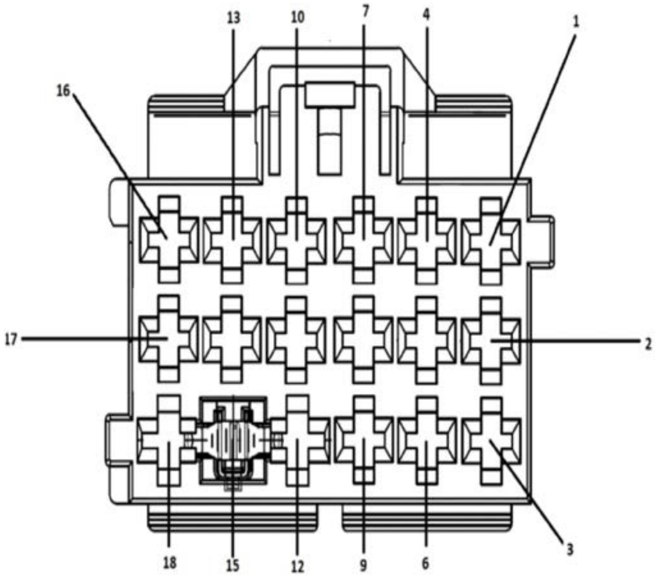
Connector Part Information		• 7383-3190 • 4-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU/WHT	TF033B	J1939 CAN 1 High Serial Data to B-404 Splice Pack
2	BLU/WHT	TF007B	J1939 CAN 1 High Serial Data to IPC
3	BLU/WHT	TF037B	J1939 CAN 1 High Serial Data to TCM
4	BLU/WHT	TF061B	J1939 CAN 1 High Serial Data to FMS Module

To the Right of the Accelerator Pedal, to the Left of the Fuse/Relay Center (Cab)



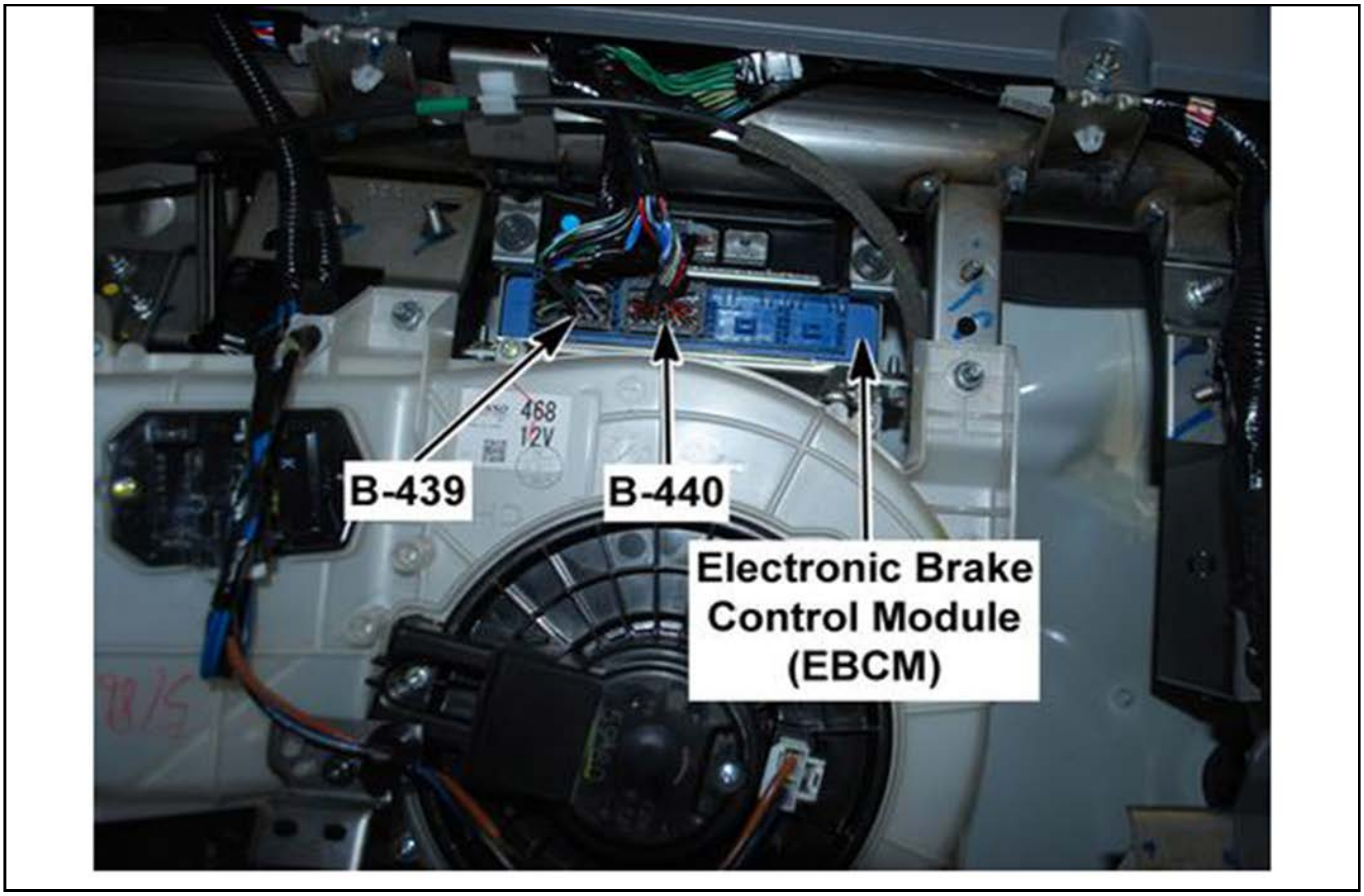
4891096

B-439 Electronic Brake Control Module (EBCM)



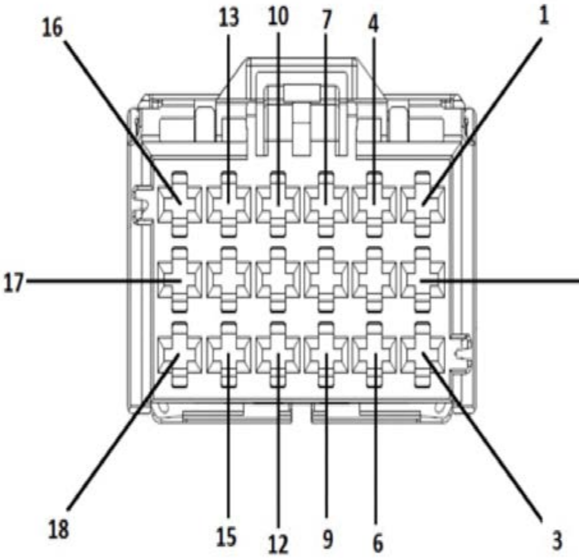
Connector Part Information	• 1718091-1 • 18-Way F (BLK)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	BY012B	Ground to Splice 2 (J-8 and J-11 Ground)
2	—	—	Not Used
3	GRN/WHT	BB100B	Ignition Voltage from F-7 Fuse, Fuse/Relay Center (Cab)
4–6	—	—	Not Used
7	BLU	TF006B	CAN 1 Low
8	BLU/WHT	TF005B	CAN 1 High
9	—	—	Not Used
10	GRN/WHT	BB121B	Right Rear Wheel Speed Sensor 5 Volt Reference
11	GRN	BB122B	Right Rear Wheel Speed Sensor Reference Signal
12	BLK	BY011B	Ground to Splice 2 (J-8 and J-11 Ground)
13–15	—	—	Not Used
16	WHT/BLU	BB101B	Battery Voltage from FL-11 Fuse, Fuse/Relay Center
17	—	—	Not Used
18	WHT/VIO	BB090B	Diagnostic Switch

Behind the Lower Right Side of the I/P


B-439
B-440
Electronic Brake Control Module (EBCM)
468
12V

4891099

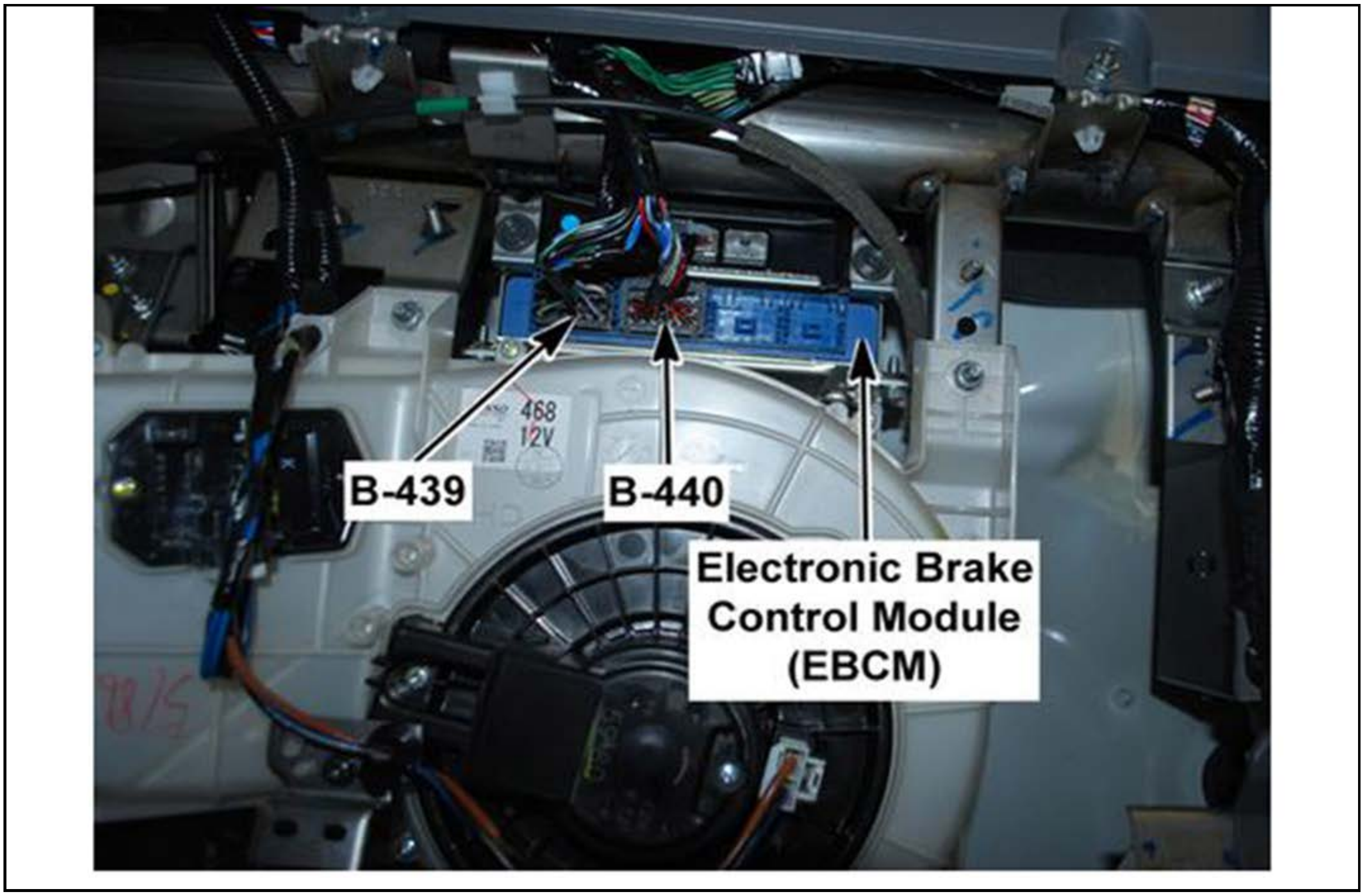
B-440 Electronic Brake Control Module (EBCM)



4891102

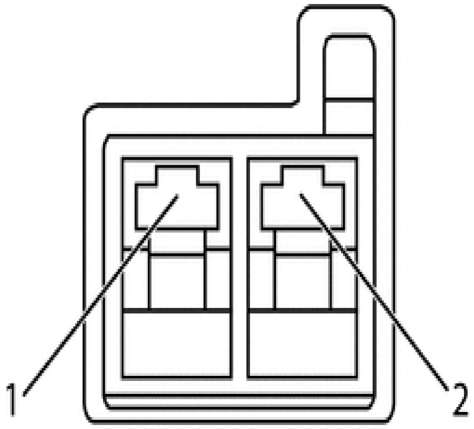
Connector Part Information		• 8-968974-1 • 18-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/WHT	BB103B	Left Front Pressure Modulator Valve Hold Control
2	RED	BB105B	Left Front Pressure Modulator Valve Release Control
3	BLK/RED	BB104B	Left Front Pressure Modulator Low Reference
4	WHT/RED	BB108B	Right Front Pressure Modulator Valve Hold Control
5	WHT/BLU	BB106B	Left Front Wheel Speed Sensor Signal
6	RED/BLK	BB109B	Right Front Pressure Modulator Low Reference
7	WHT/BLK	BB110B	Right Front Pressure Modulator Valve Release Control
8	BLK/BLU	BB107B	Left Front Wheel Speed Sensor 5 Volt Reference
9	BLK/ORN	BB119B	Right Rear Pressure Modulator Low Reference
10	WHT/GRN	BB118B	Right Rear Pressure Modulator Valve Release Control
11	BLU/WHT	BB111B	Right Front Wheel Speed Sensor Signal
12	BLK/WHT	BB114B	Left Rear Pressure Modulator Low Reference
13	RED/GRN	BB120B	Left Rear Pressure Modulator Valve Release Control
14	BLU	BB112B	Right Front Wheel Speed Sensor 5 Volt Reference
15	WHT/RED	BB116B	Left Rear Wheel Speed Sensor 5 Volt Reference
16	WHT/BLU	BB113B	Left Rear Pressure Modulator Valve Release Control
17	RED/BLU	BB115B	Left Rear Pressure Modulator Valve Release Control
18	ORN/BLK	BB117B	Left Rear Wheel Speed Sensor Signal

Behind the Lower Right Side of the I/P


468
12V
B-439
B-440
Electronic Brake Control Module (EBCM)

4891099

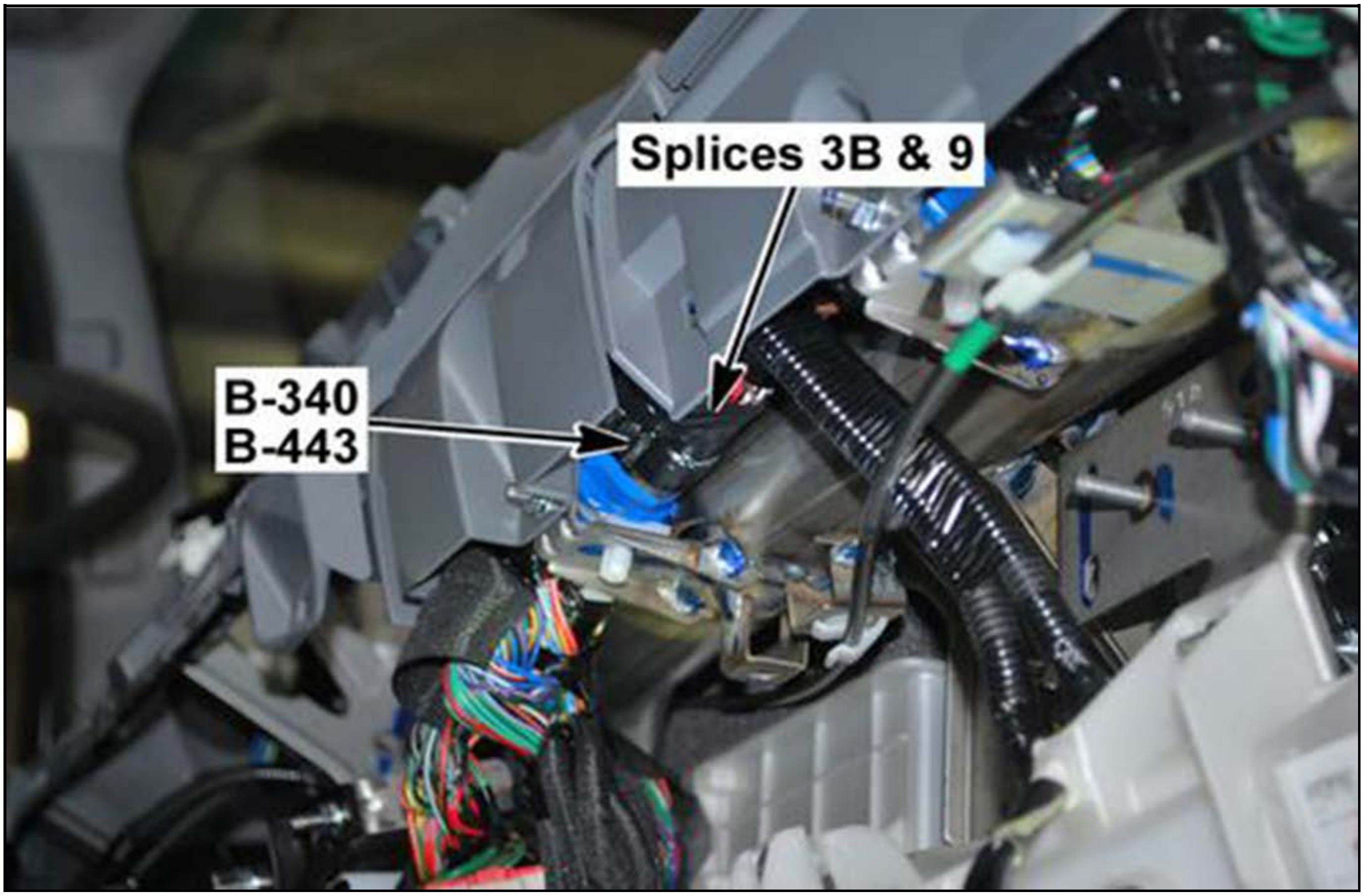
B-443 Door Lock Diode



4890964

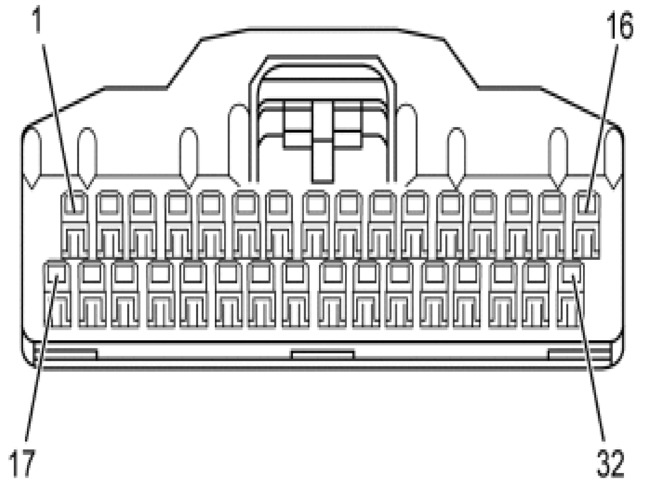
Connector Part Information		- 7323-9025-30 - 2-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/BLK	VA100B	Door Lock Signal (In) from J/B 1 (B-132 pin 4)
2	GRN/WHT	VA101B	Door Lock Signal (Out) to J/B 2 (B-144 pin 12)

In the Center of the I/P, Between the Blower Resistor and Junction Block 2. Taped in the Main Harness



4890972

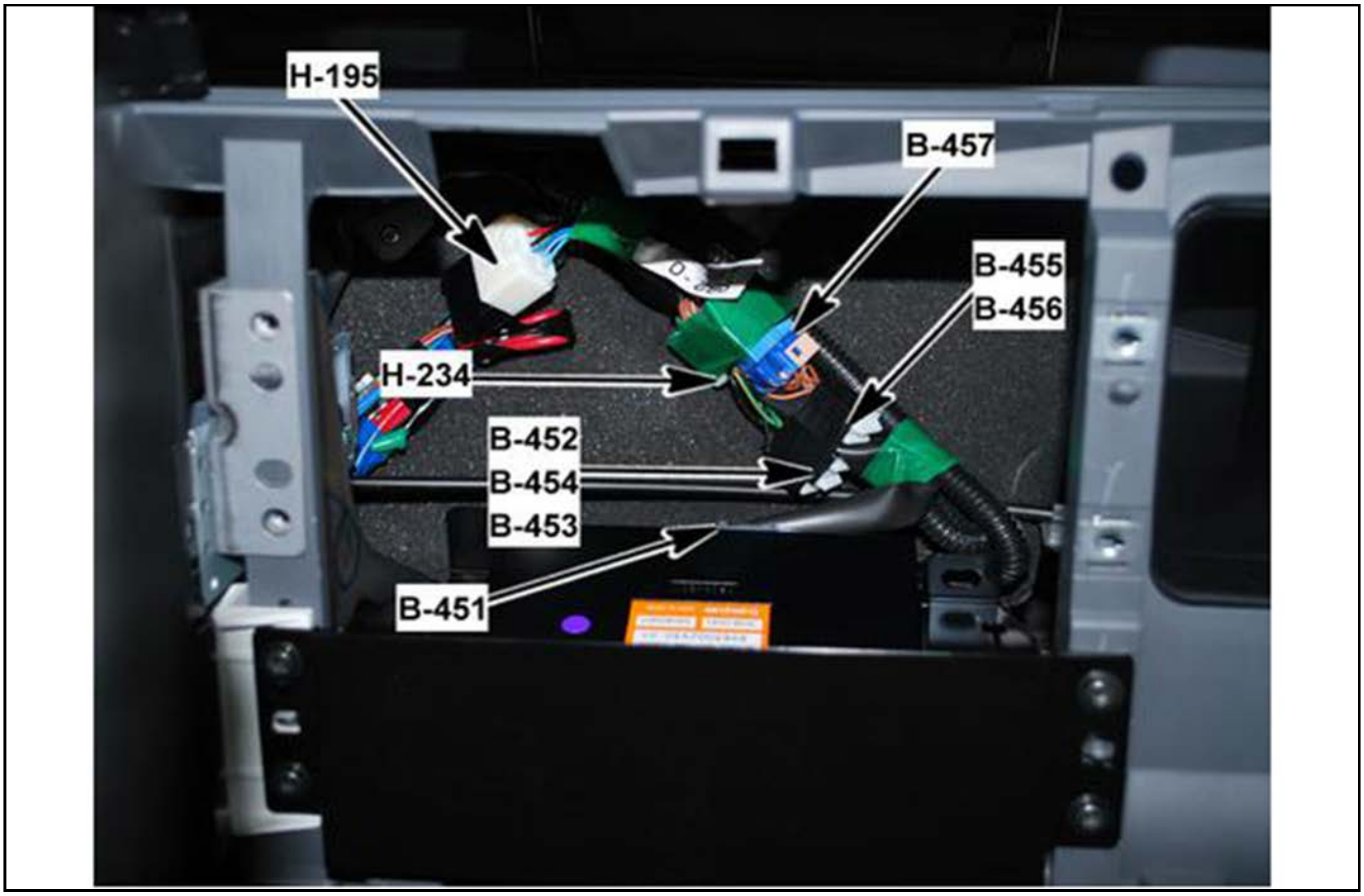
B-451 Fleet Management System (FMS) Module



4891083

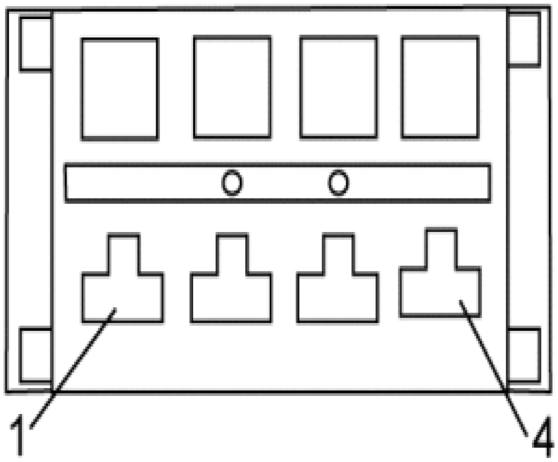
Connector Part Information		- MX34032SF1 - 32-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED	GG023	Battery Voltage from Fuse F-3
2	GRN/YEL	GG022	Ignition Voltage from Fuse F-21
3	LT BLU	GG004T	ISO 14230 communication
4	BRN/WHT	TF065	CAN 4 High Serial Data
5	BLK	GT016	Ground to B-453 Splice Pack (B-51 Ground)
6	BLU/WHT	TF061T	CAN 1 High Serial Data
7–15	—	—	Not Used
16	RED	GG003	Battery Voltage from Fuse F-3
17–20	—	—	Not Used
21	BRN	TF066	CAN 4 Low Serial Data
22	—	—	Not Used
23	BLU	TF062T	CAN 1 Low Serial Data
24–32	—	—	Not Used

Behind the Storage Compartment, Right Side of the Radio


H-195
B-457
B-455
B-456
H-234
B-452
B-454
B-453
B-451

4891103

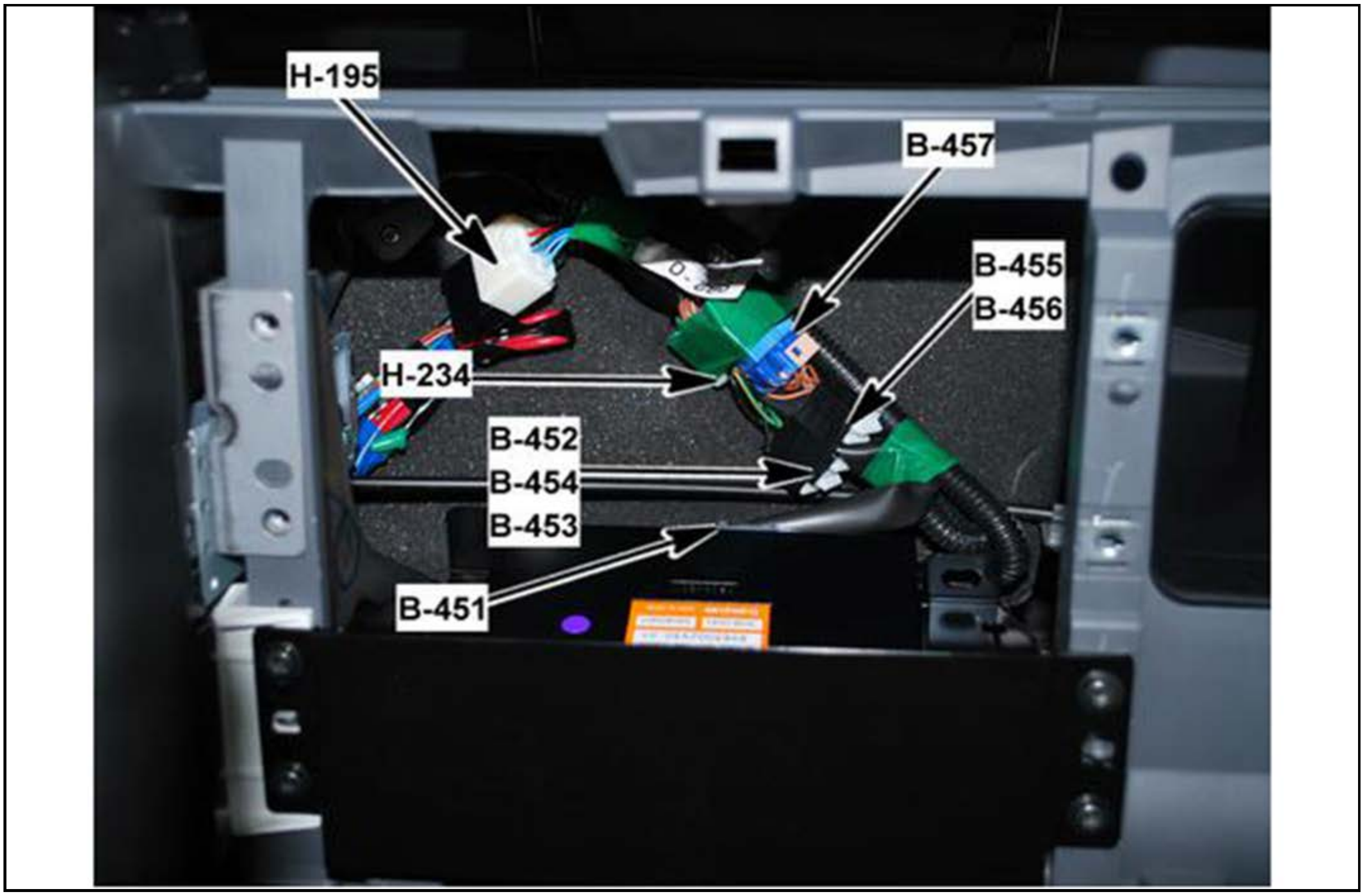
B-452 FMS Splice Pack



4890929

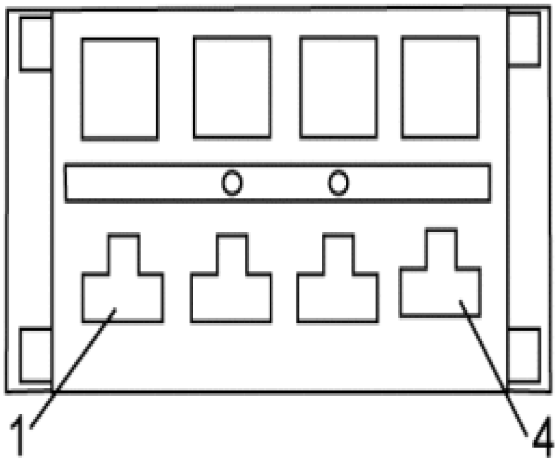
Connector Part Information		• 7383-3190 • 4-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED	GG013T	Battery Voltage from Fuse F-3 from J/B 2 (B- 146 pin 18)
2	RED	GG003	Battery Voltage from Fuse F-3 to Fleet Management System (FMS) Module
3	—	—	Not Used
4	RED	GG023	Battery Voltage from Fuse F-3 to Telematics Connector H-234

Behind the Storage Compartment, Right Side of the Radio


H-195
B-457
B-455
B-456
H-234
B-452
B-454
B-453
B-451

4891103

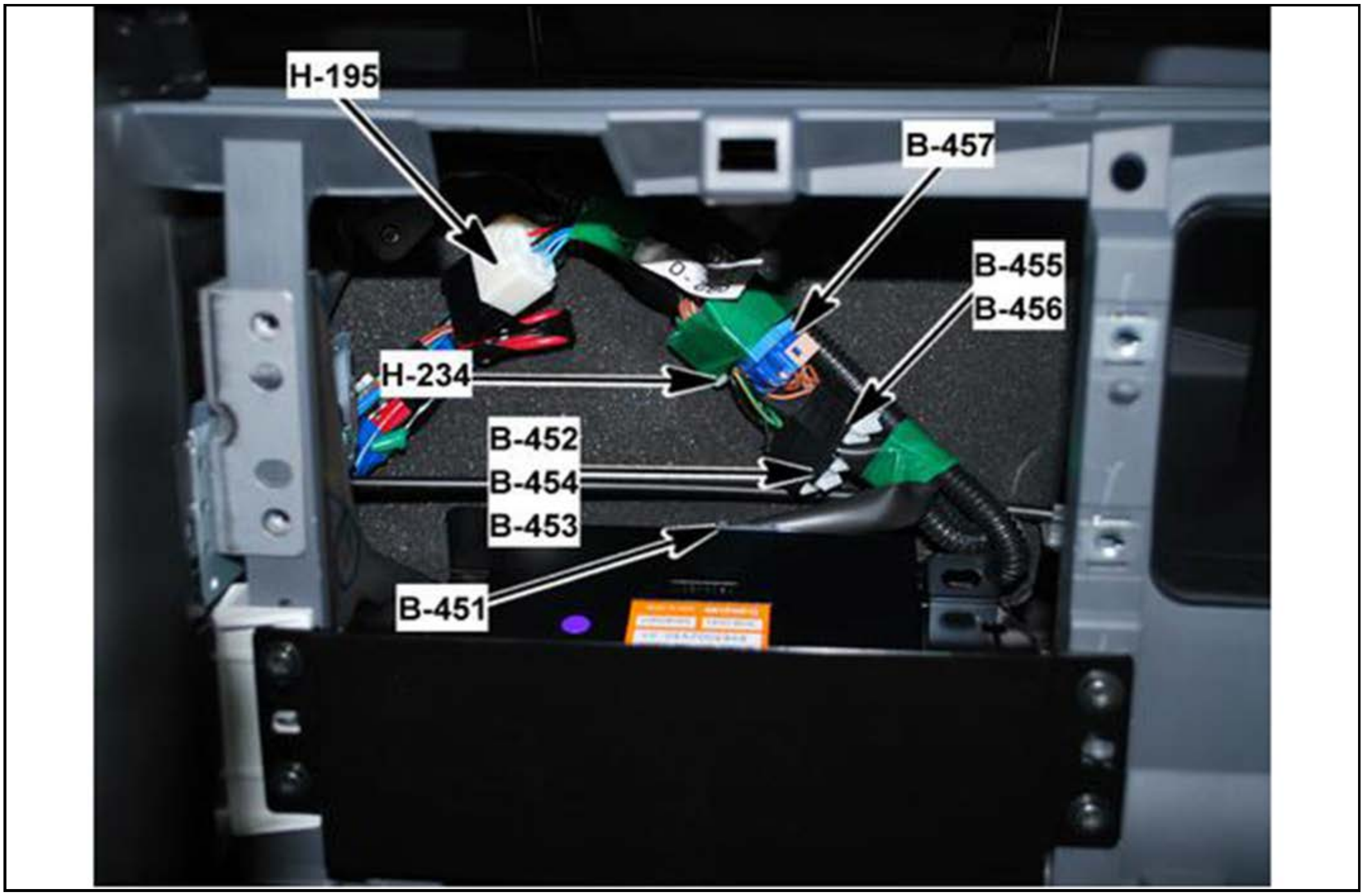
B-453 Ground Splice Pack



4890929

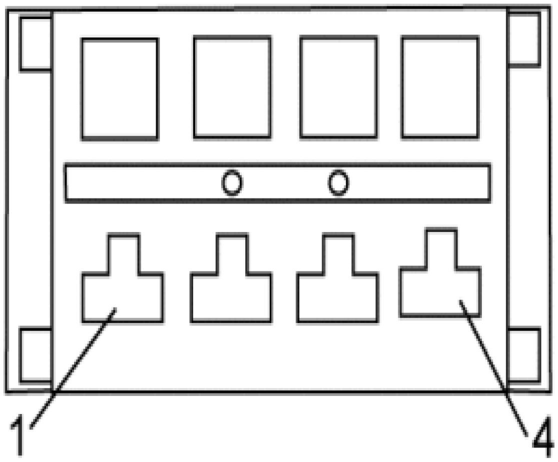
Connector Part Information		• 7383-3190 • 4-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	GT006T	Ground to B-601 Splice Pack (B-51 Ground)
2	BLK	GT026	Ground from Telematics Connector H-234
3	—	—	Not Used
4	BLK	GT016	Ground from FMS Module

Behind the Storage Compartment, Right Side of the Radio


H-195
B-457
B-455
B-456
H-234
B-452
B-454
B-453
B-451

4891103

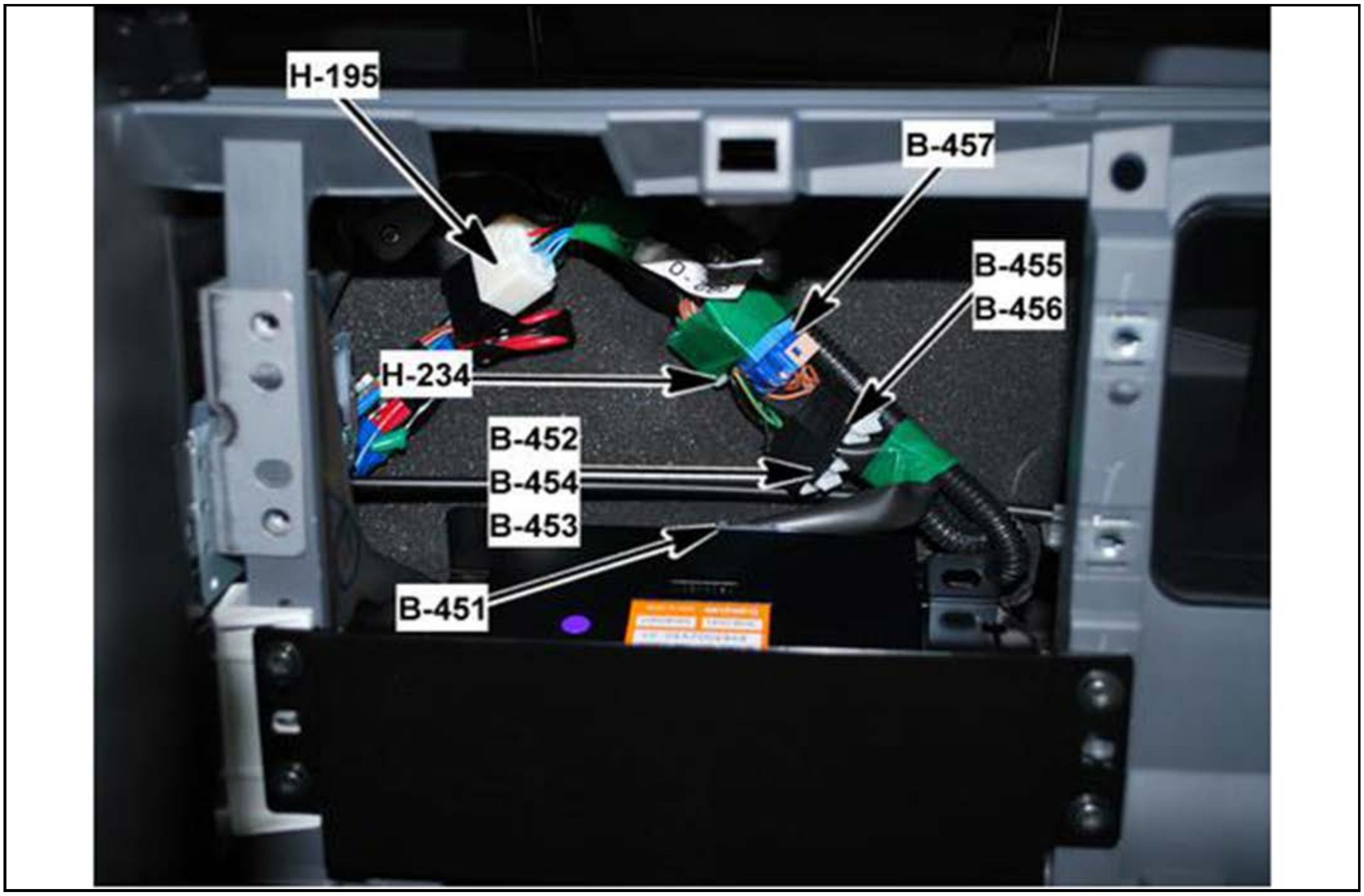
B-454 FMS Splice Pack



4890929

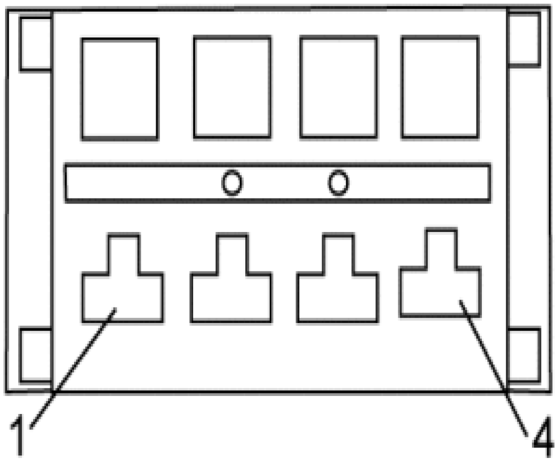
Connector Part Information	- 7383-3190 - 4-Way F (WHT)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/YEL	GG012T	Ignition Voltage from Fuse F-21, from J/B 2 (B- 140 pin 15)
2	GRN/YEL	GG002	Ignition Voltage from Fuse F-21 to FMS Module
3	—	—	Not Used
4	GRN/YEL	GG022	Ignition Voltage from Fuse F-21 Telematics Connector H-234

Behind the Storage Compartment, Right Side of the Radio


H-195
B-457
B-455
B-456
H-234
B-452
B-454
B-453
B-451

4891103

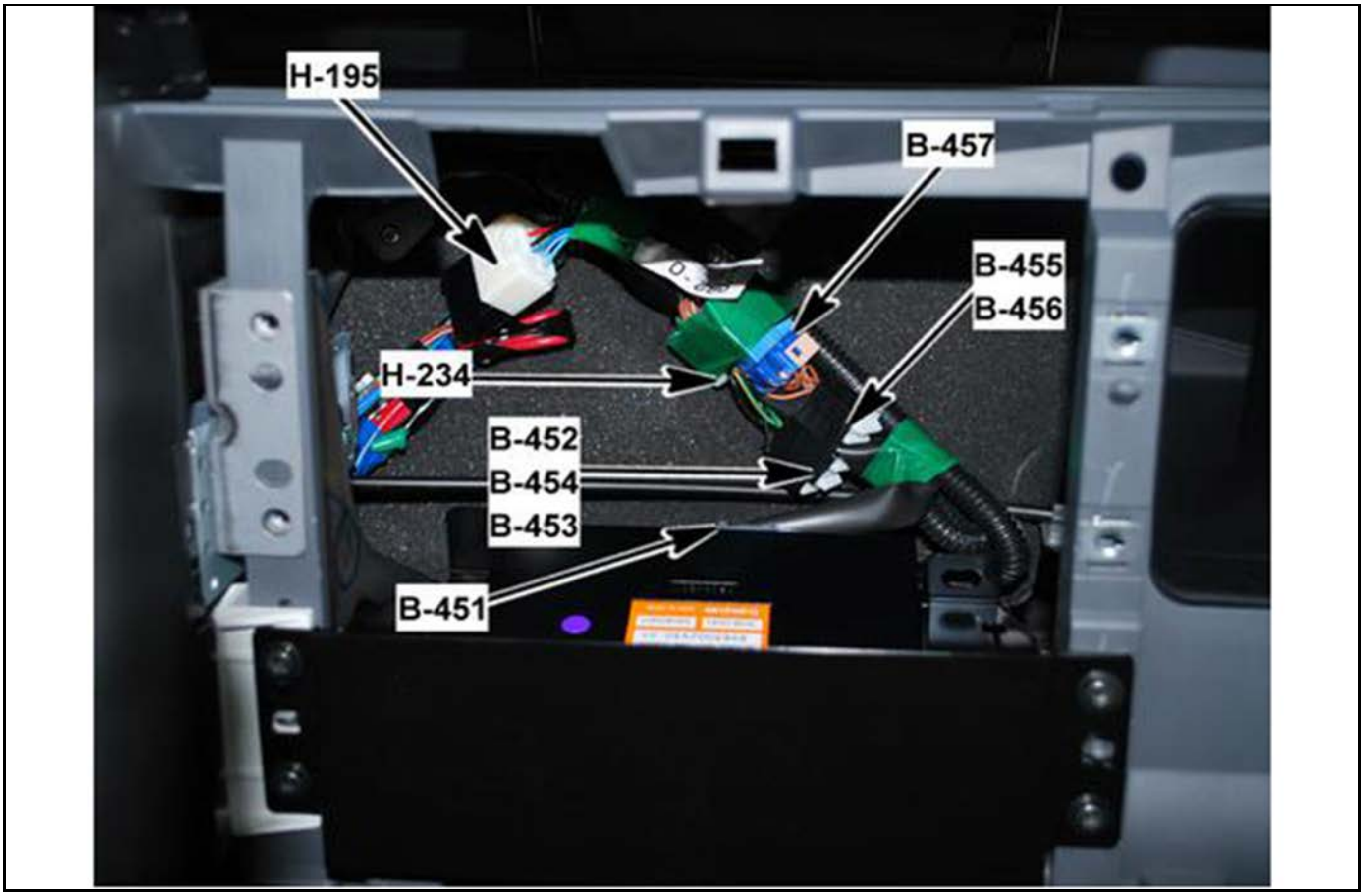
B-455 J1939 CAN 4 High Splice Pack



4890929

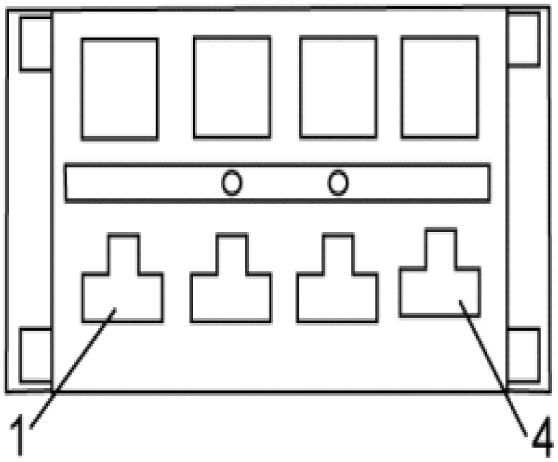
Connector Part Information		• 7383-3190 • 4-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BRN/WHT	TF065	J1939 CAN 4 High to FMS Module
2	BRN/WHT	TF067	J1939 CAN 4 High to Resistor B-457
3	—	—	Not Used
4	BRN/WHT	TF069T	J1939 CAN 4 High to Telematics Connector B-234

Behind the Storage Compartment, Right Side of the Radio


H-195
B-457
B-455
B-456
H-234
B-452
B-454
B-453
B-451

4891103

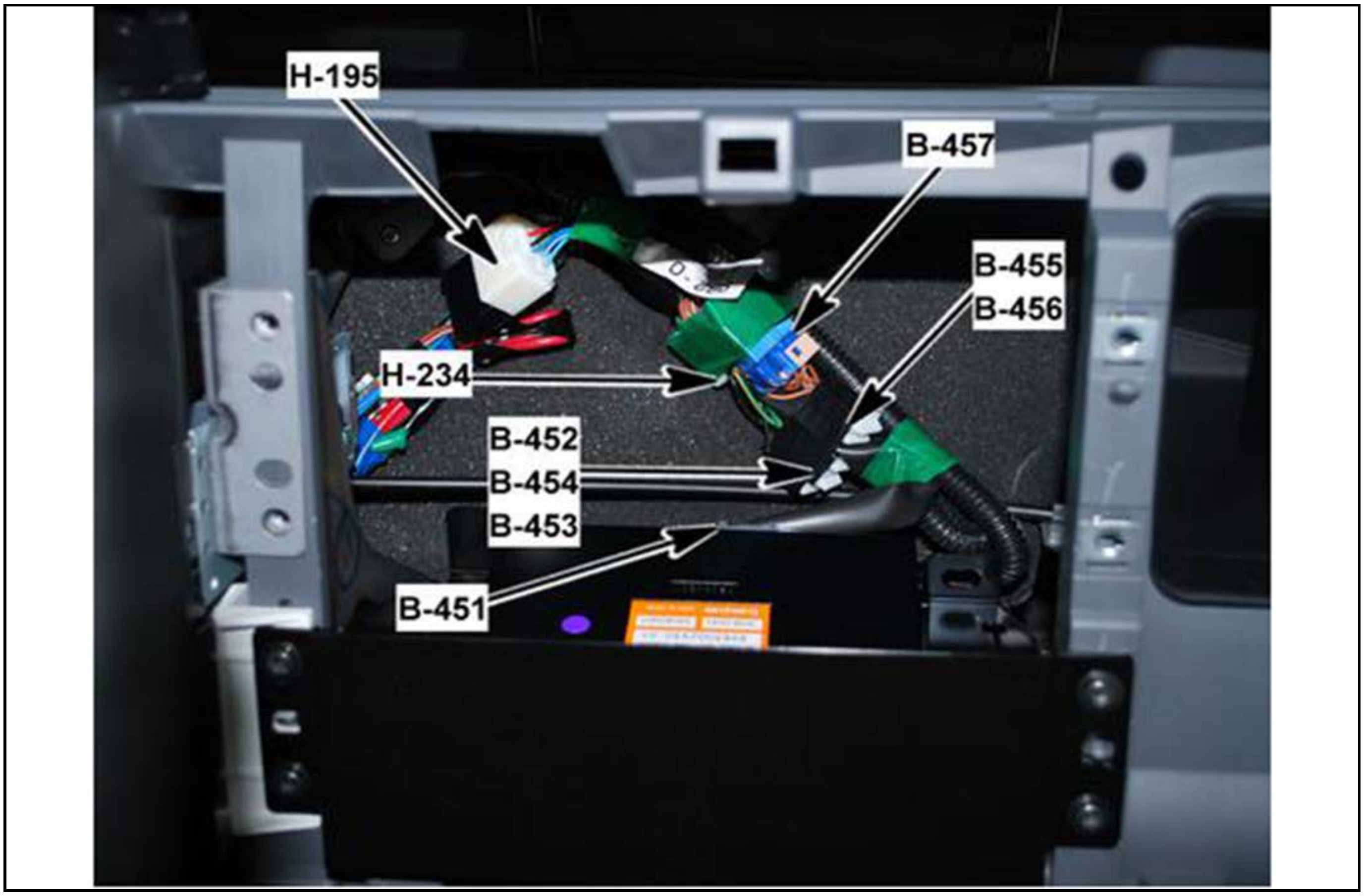
B-456 J1939 CAN 4 Low Splice Pack



4890929

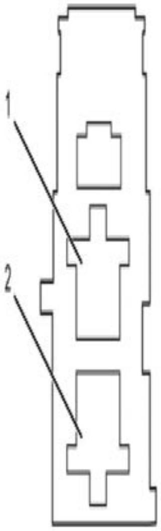
Connector Part Information		• 7383-3190 • 4-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BRN	TF066	J1939 CAN 4 Low to FMS Module
2	BRN	TF068	J1939 CAN 4 Low to Resistor B-457
3	—	—	Not Used
4	BRN	TF070T	J1939 CAN 4 Low to Telematics Connector H-234

Behind the Storage Compartment, Right Side of the Radio


H-195
B-457
B-455
B-456
H-234
B-452
B-454
B-453
B-451

4891103

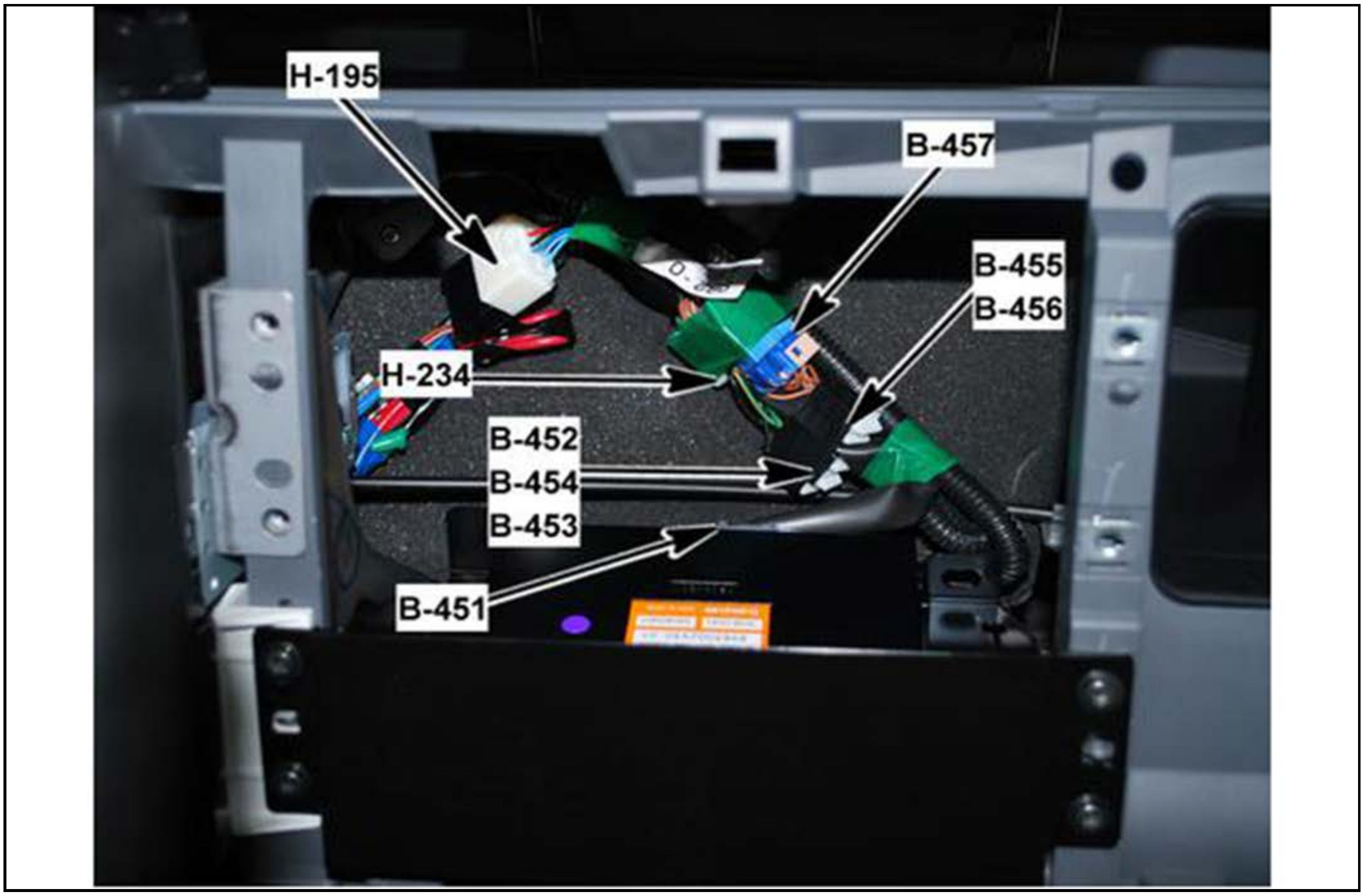
B-457 CAN 4 Resistor



4891112

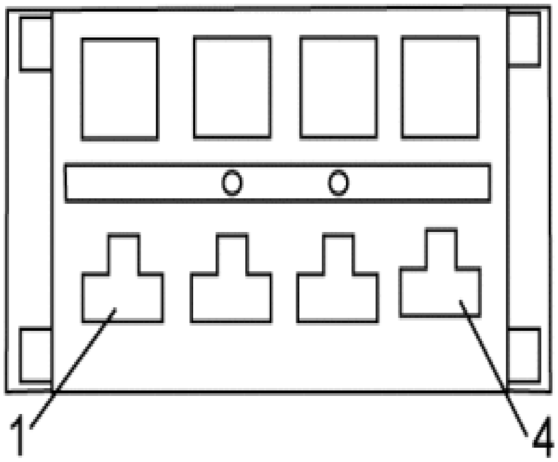
Connector Part Information		• 7323-6122-90 • 2-Way F (BLU) • 120 Ohms	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BRN	TF068	J1939 CAN 4 Low
2	BRN/WHT	TF067	J1939 CAN 4 High

Behind the Storage Compartment, Right Side of the Radio


H-195
B-457
B-455
B-456
H-234
B-452
B-454
B-453
B-451

4891103

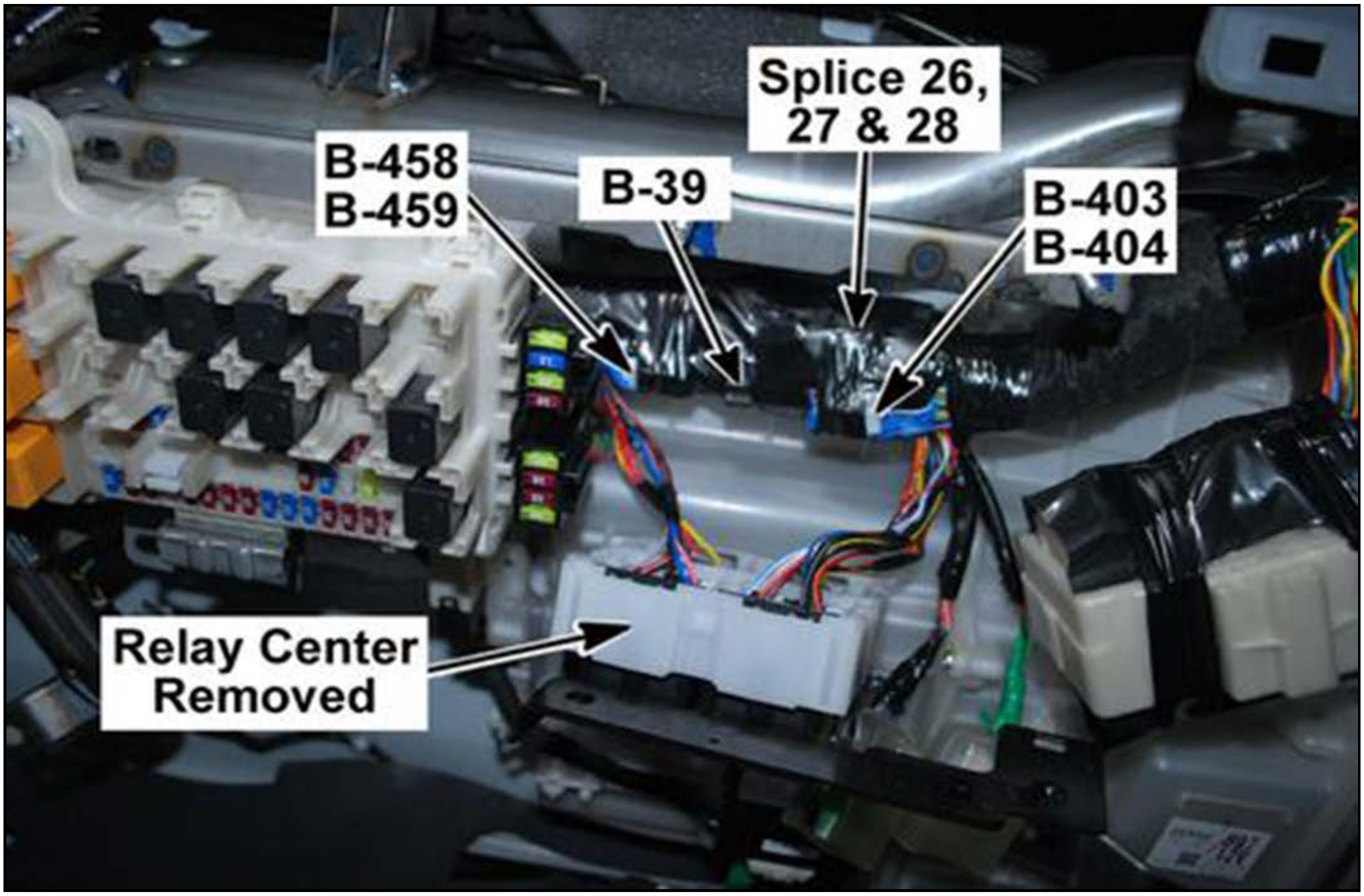
B-458 J1939 CAN 1 High Splice Pack



4890929

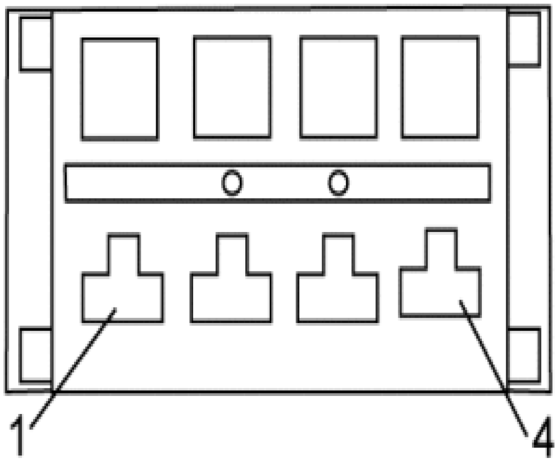
Connector Part Information		• 7383-3190 • 4-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU/WHT	TF003B	J1939 CAN 1 High Serial Data to VNT Module and ECM
2	—	—	Not Used
3	BLU/WHT	TF001B	J1939 CAN 1 High Serial Data to B-404 Splice Pack
4	BLU/WHT	TF005B	J1939 CAN 1 High Serial Data to EBCM

Center of the I/P, Behind the Fuse/Relay Center (Cab)


Splice 26,
27 & 28
B-458
B-459
B-39
B-403
B-404
Relay Center
Removed

4891092

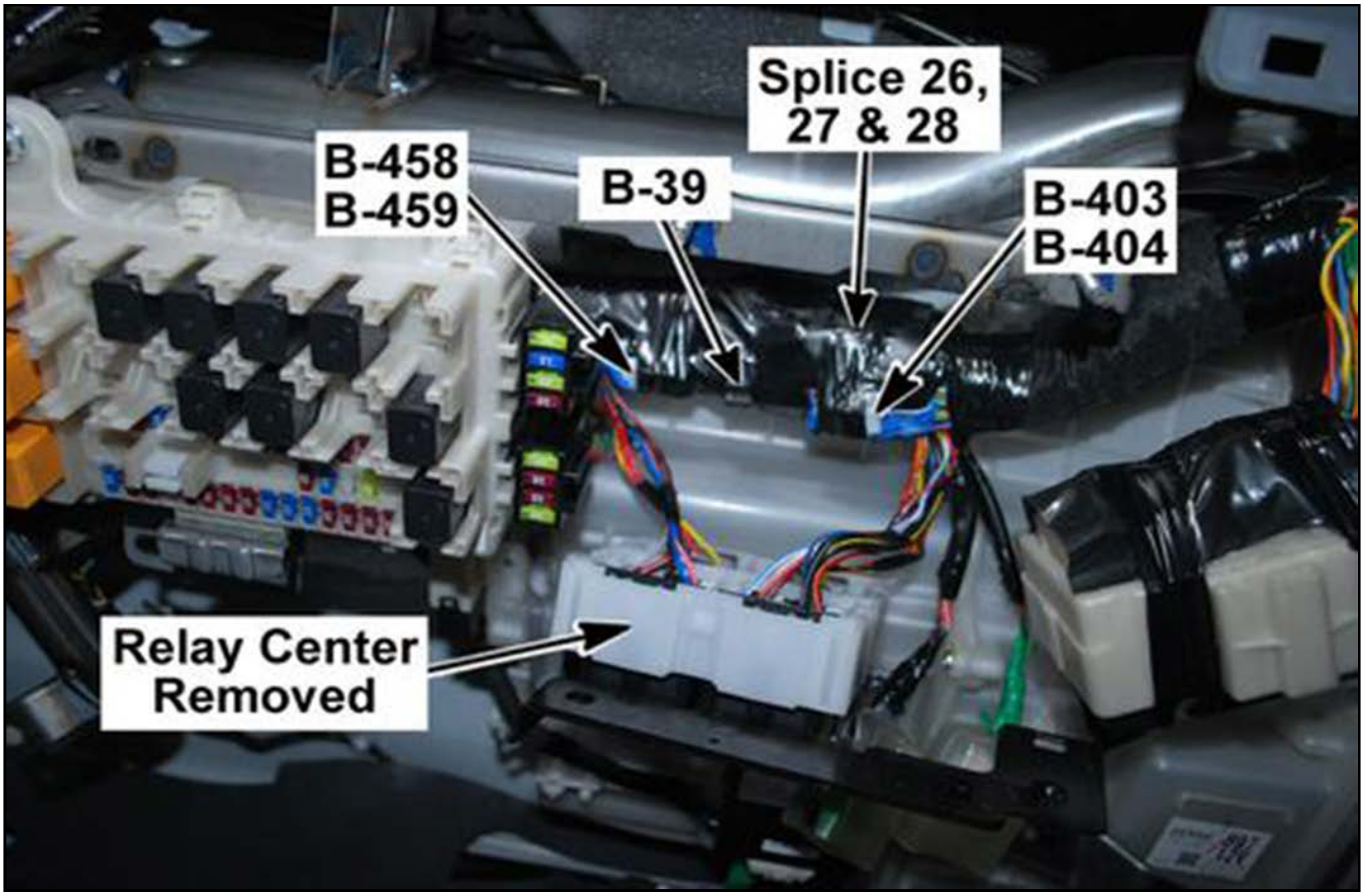
B-459 J1939 CAN 1 Low Splice Pack



4890929

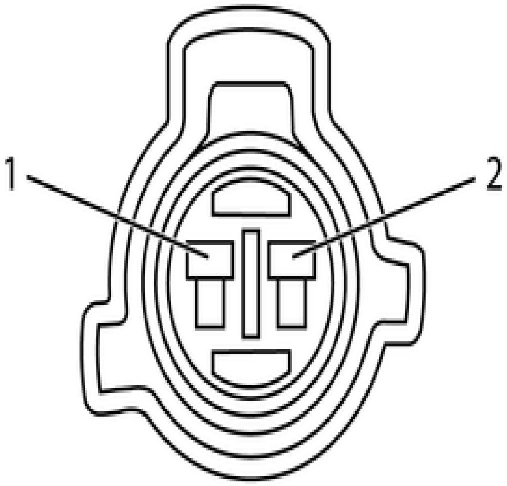
Connector Part Information		- 7383-3190 - 4-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU	TF004B	J1939 CAN 1 Low Serial Data to VNT Module and ECM
2	—	—	Not Used
3	BLU	TF002B	J1939 CAN 1 Low Serial Data to B-403 Splice Pack
4	BLU	TF006B	J1939 CAN 1 Low Serial Data to EBCM

Center of the I/P, Behind the Fuse/Relay Center (Cab)


Splice 26, 27 & 28
B-458
B-459
B-39
B-403
B-404
Relay Center Removed

4891092

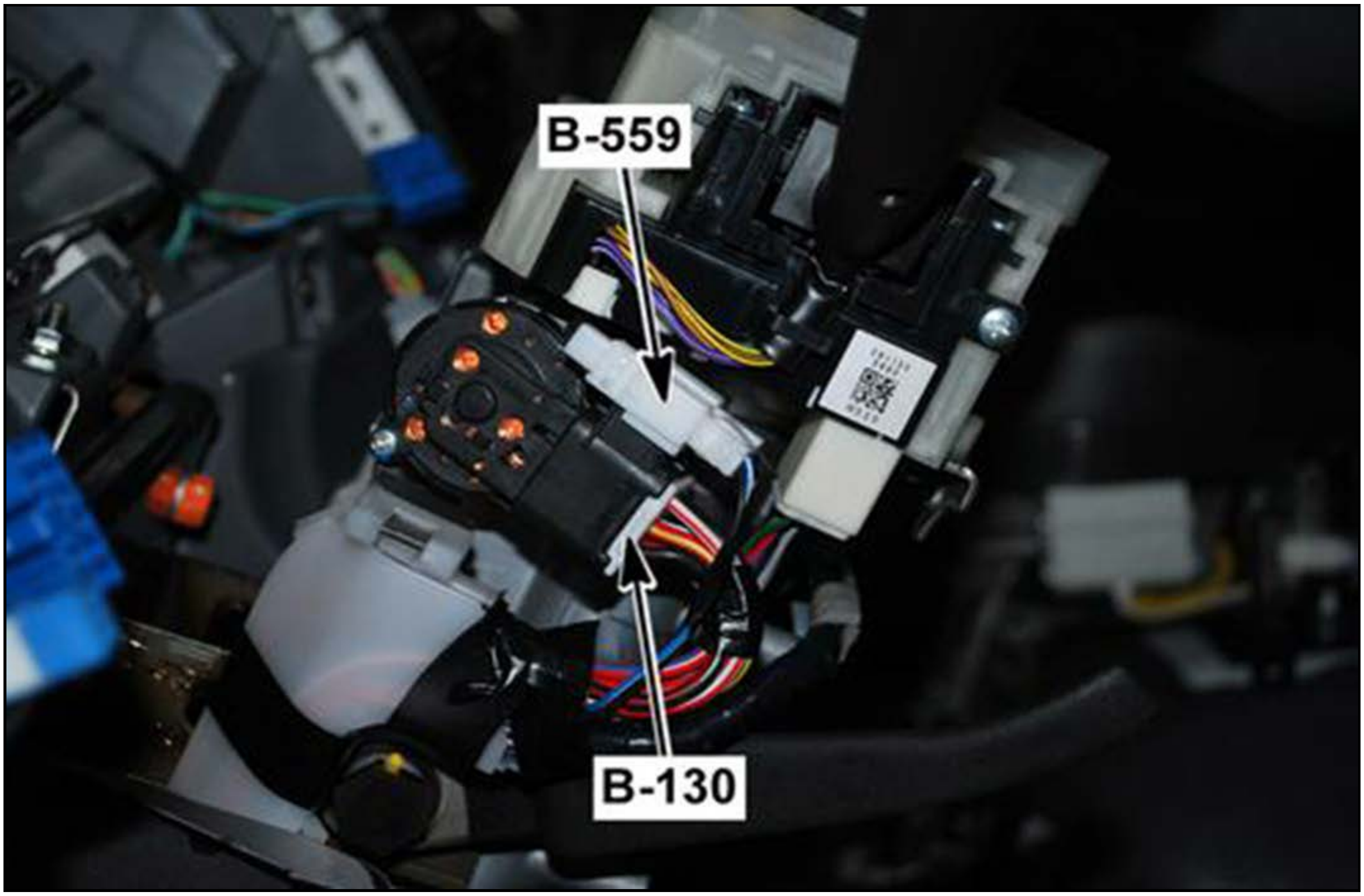
B-559 Key Lock Solenoid



4891121

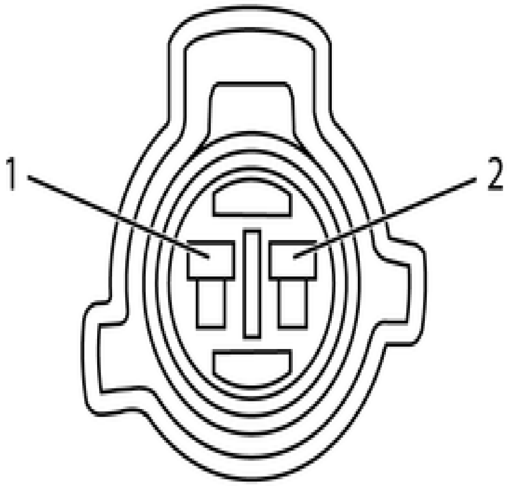
Connector Part Information		• PH845-02010 • 2-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	OX021B	Ground to Splice 18 (B-55 and B-221)
2	BLU/WHT	OA093B	Signal from Shift Lever

On the Left Sdie of the Steering Column, Under the Steering Column Trim Covers



4891128

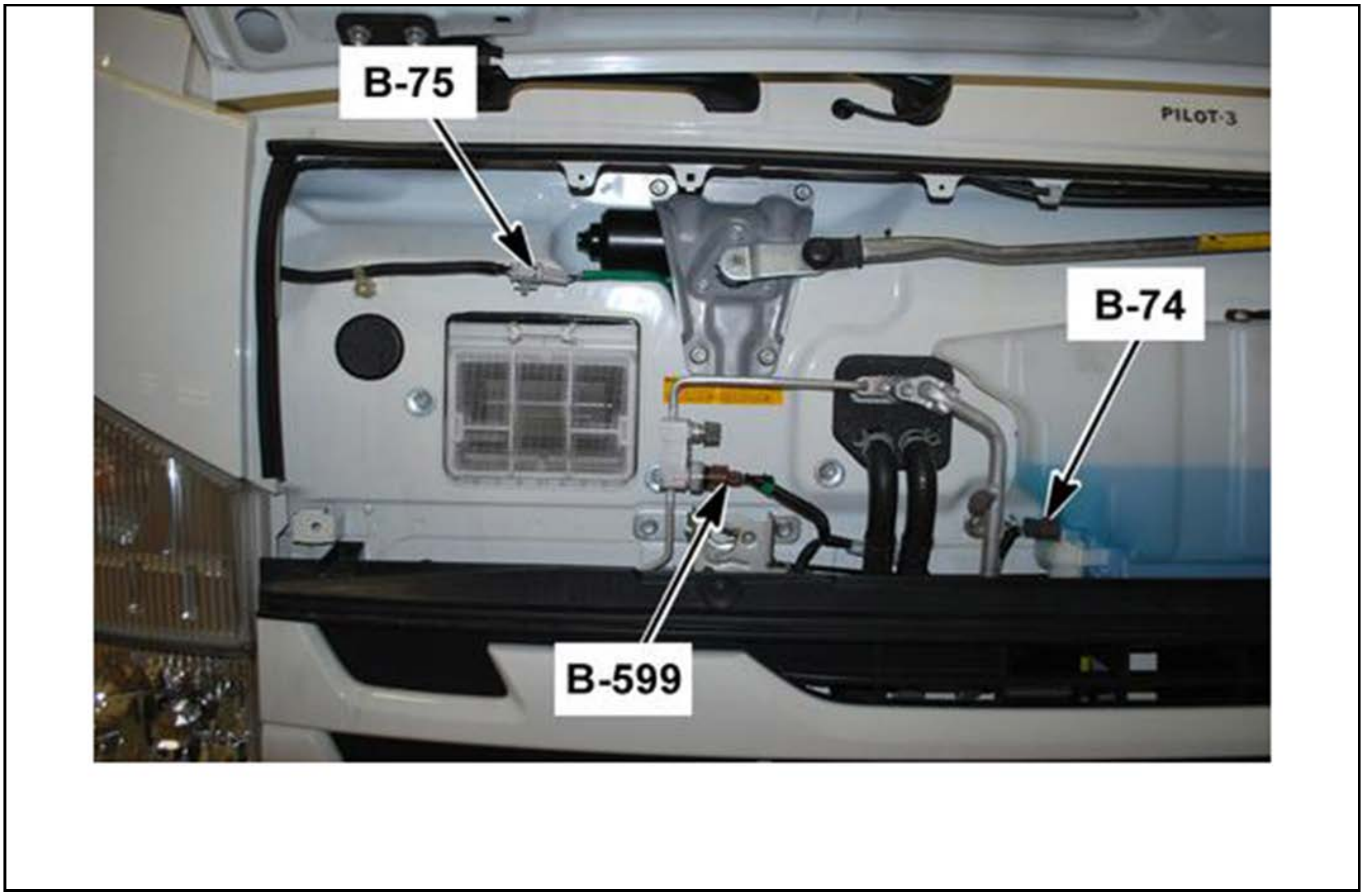
B-599 A/C Pressure Switch



4891121

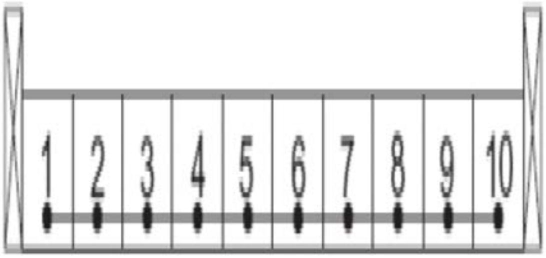
Connector Part Information	• 6189-0023 • 2-Way F (BRN)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU	HA013B	Switched Output Voltage from X-20 Compressor Clutch Relay
2	BRN/YEL	HA012B	Voltage to Compressor Clutch

Right Front of Vehicle, Under Hood


B-75
PILOT-3
B-74
B-599

4891150

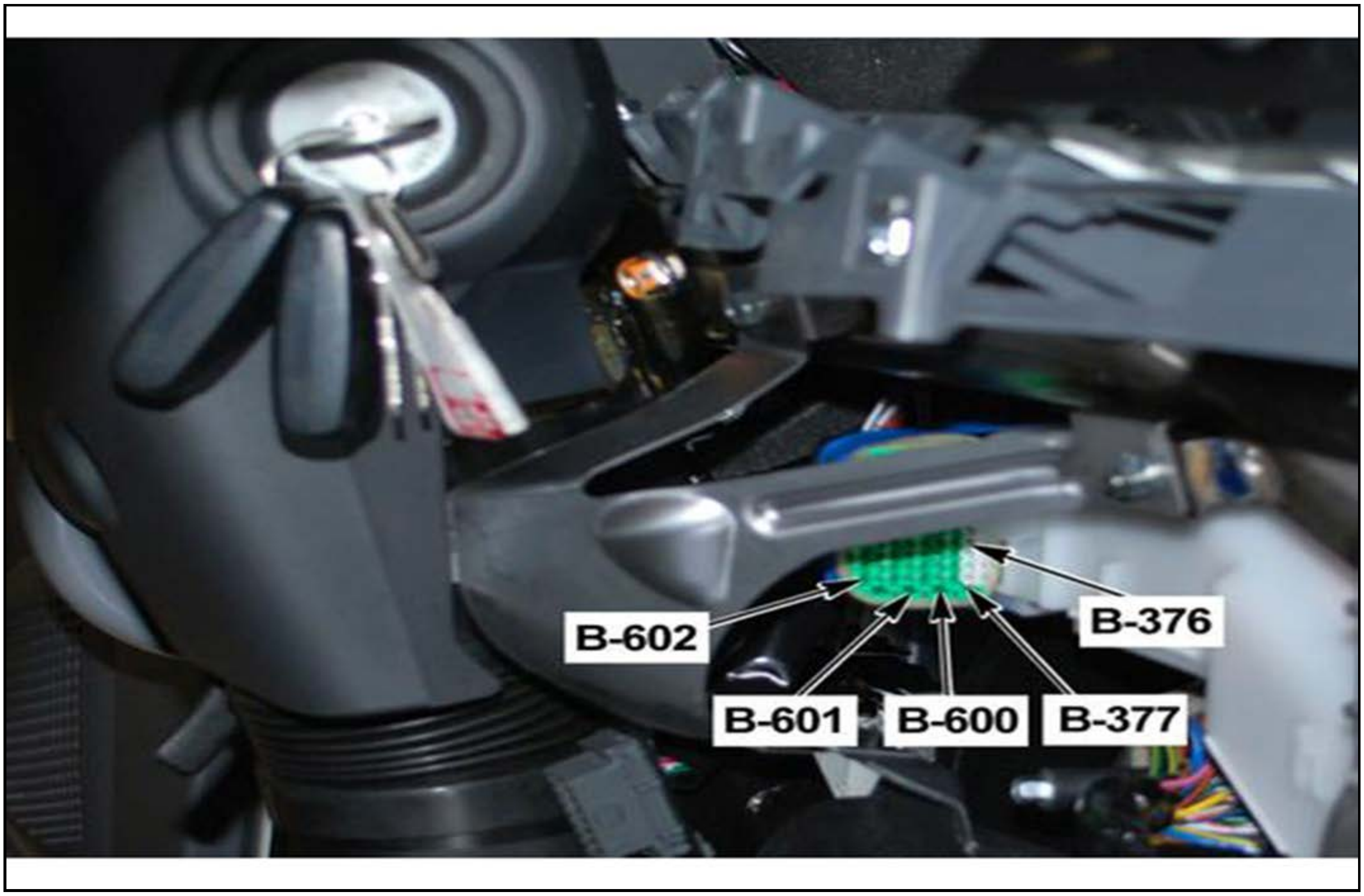
B-600 Ground Splice Pack



4891043

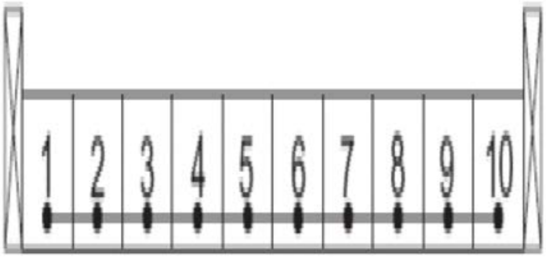
Connector Part Information		• 7387-3359-60 • 10-Way F (GRN)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	ZZ050B	Ground from B-377 Splice Pack
2	BLK	FX002B	Ground to Wiper/Exhaust Brake Switch
3	BLK	MX024B	Ground to Seat Belt Switch
4	BLK	SX010B	Ground to Cigar Lighter Relay
5	BLK	ZZ009B	Ground to Data Link Connector
6	BLK	HX007B	Ground to Electronic Thermostat
7	BLK	HX001B	Ground to A/C Switch
8	BLK	VX003B	Ground to Front Door Lock Motor (LH)
9	BLK	VX005B	Ground to Door Lock Switch
10	BLK	ZZ051B	Ground to B-601 Splice Pack (B-51 Ground)

Right Side of the Steering column, Above the Data Link Connector (DLC)


B-602
B-601
B-600
B-377
B-376

4891030

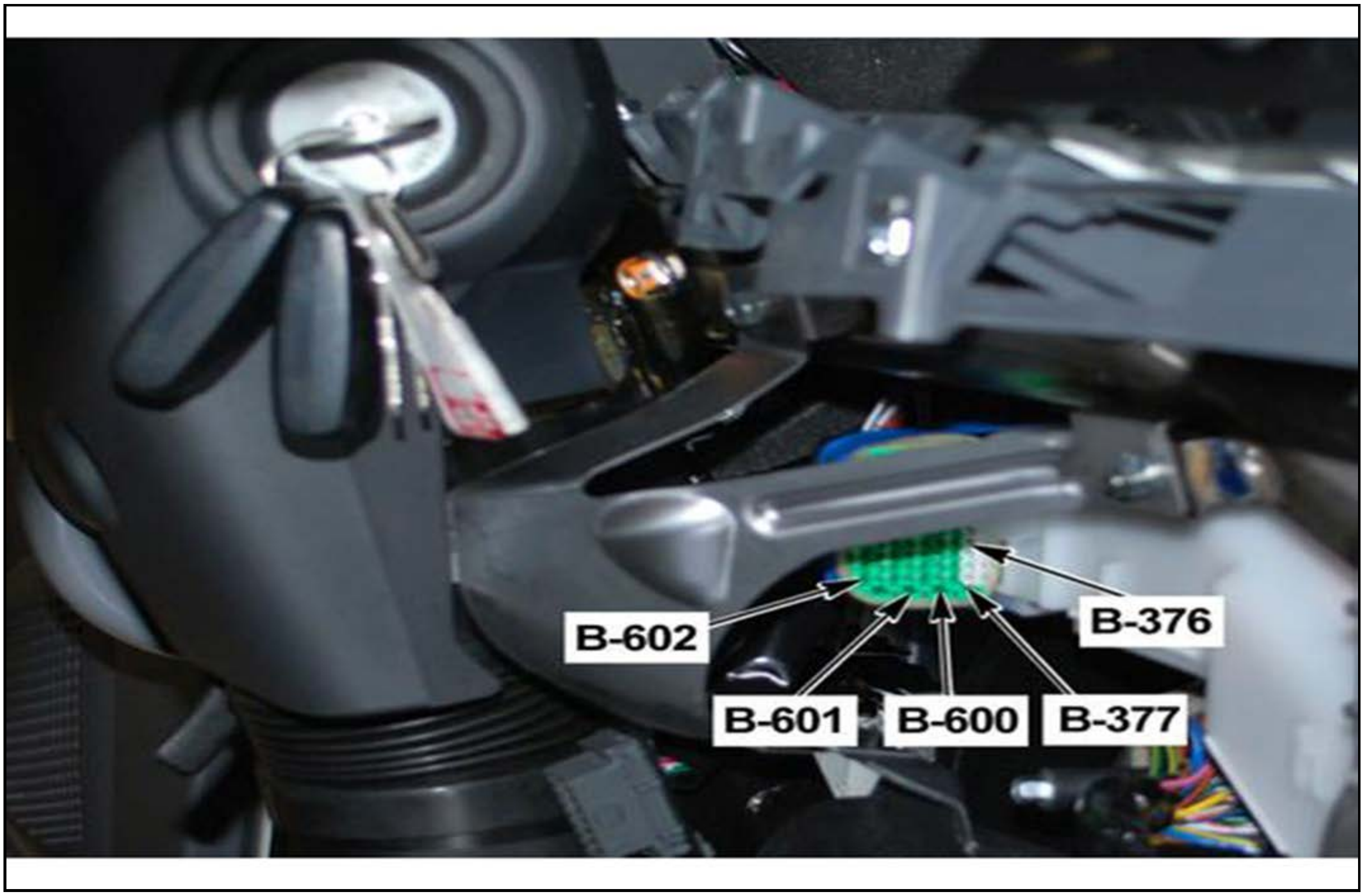
B-601 Ground Splice Pack



4891043

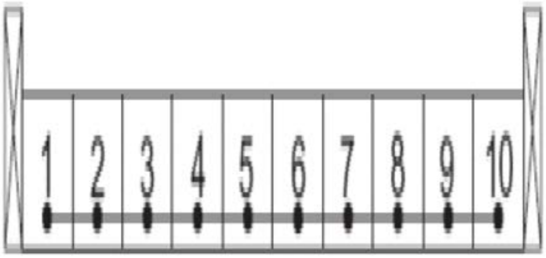
Connector Part Information		- 7387-3359-60 - 10-Way F (GRN)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	ZZ052B	Ground to B-602 Splice Pack
2	BLK	JX005B	Ground from Front Turn Signal Lamp (LH)
3	BLK	BX022B	Ground from Front Park Lamp (LH)
4	BLK	IZ086B	Ground from PTO Switch
5	BLK	UX002B	Ground from Power Window Relay
6	BLK	GT006B	Ground from B-453 Splice Pack
7	BLK	HZ001B	Ground from RKE Module
8	BLK	BX024B	Ground from Side Marker Lamp (LH)
9	BLK	MX116B	Ground from IPC
10	BLK	ZZ051B	Ground from B-600 Splice Pack

Right Side of the Steering column, Above the Data Link Connector (DLC)


B-602
B-376
B-601
B-600
B-377

4891030

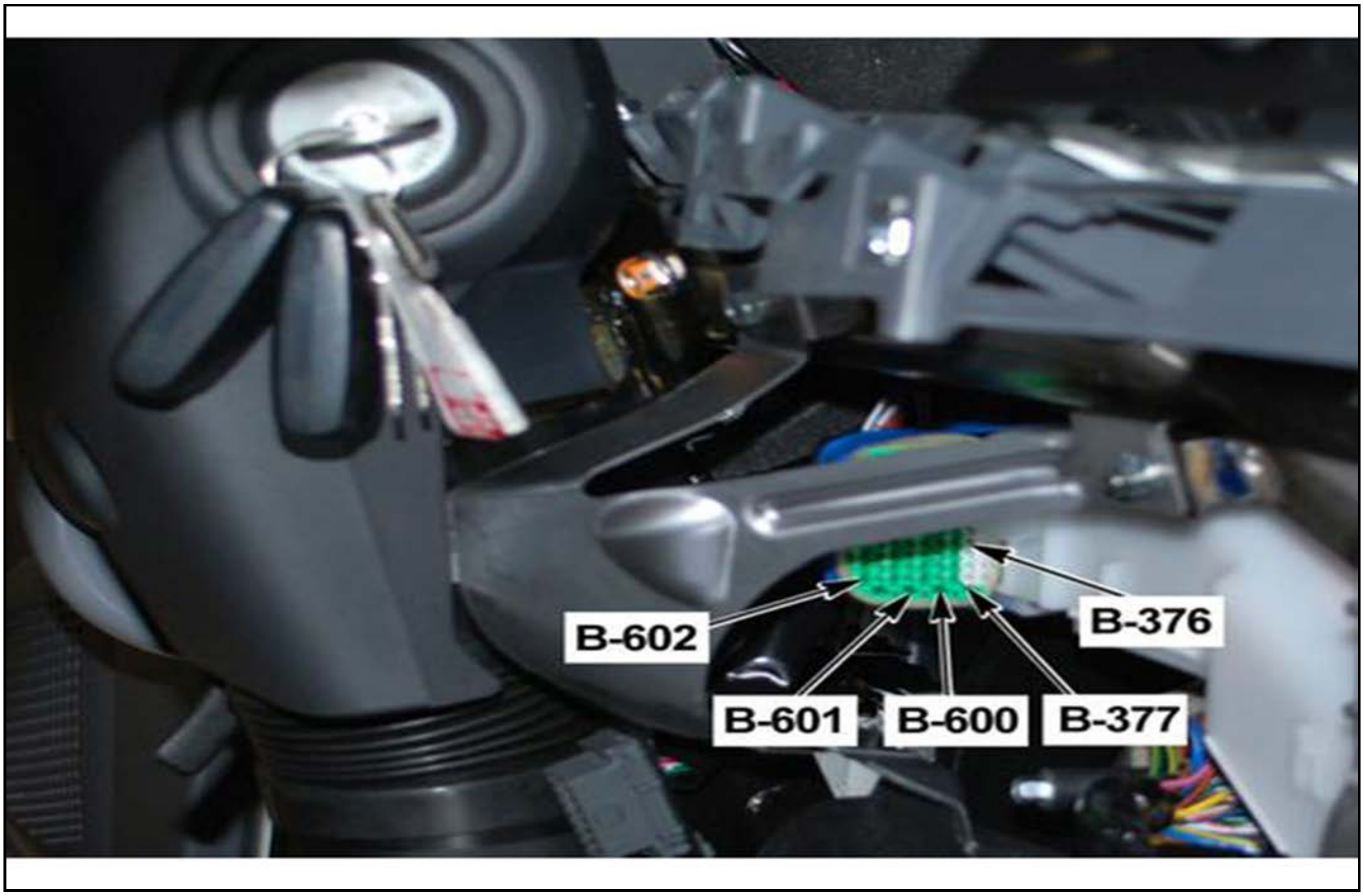
B-602 Ground Splice Pack



4891043

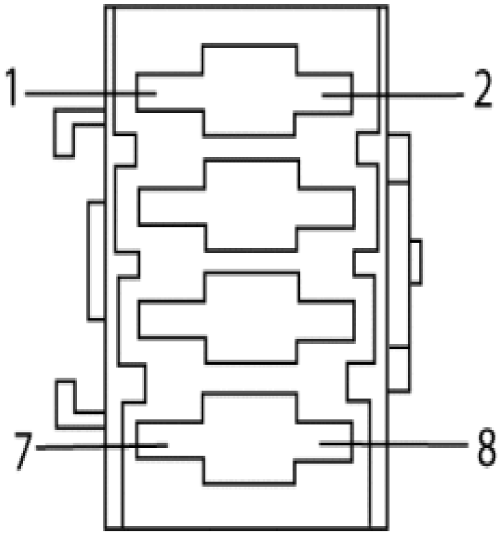
Connector Part Information		• 7387-3359-60 • 10-Way F (GRN)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	ZZ052B	Ground from B-601 Splice Pack
2	BLK	WX007B	Ground from Mirror Heater Switch
3	BLK	CX001B	Ground from Stop Lamp Switch 1
4	BLK	IZ013B	Ground from Radiator Level Control Module
5	BLK	ZZ003B	Ground to B-51
6–10	—	—	Not Used

Right Side of the Steering column, Above the Data Link Connector (DLC)


B-602
B-376
B-601
B-600
B-377

4891030

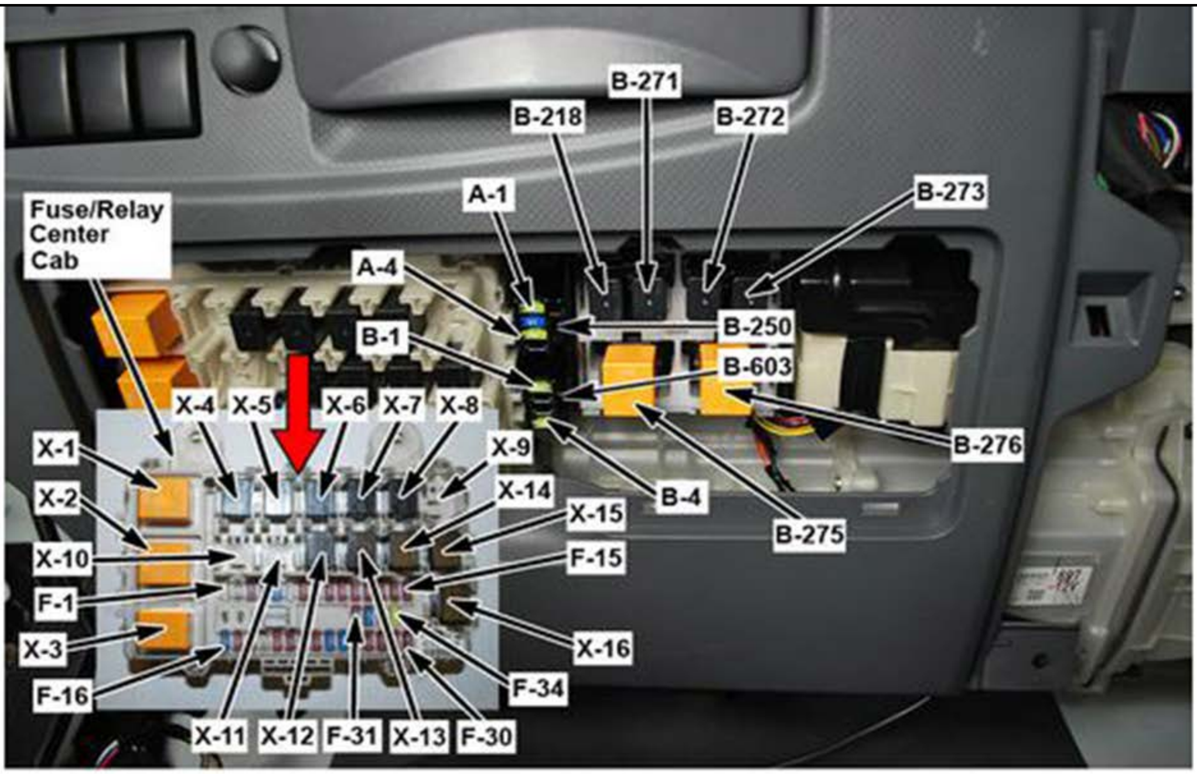
B-603 Fuse/Relay Center (Cab)



4890906

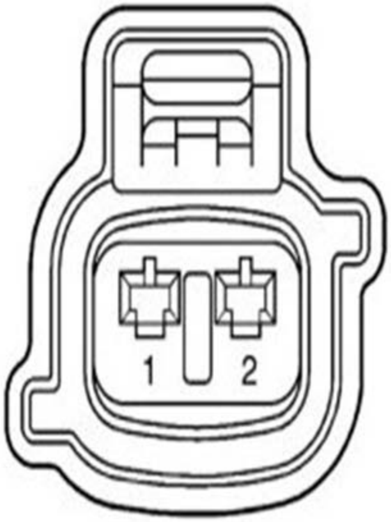
Connector Part Information		• 7354-5918-30 • 8-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK/RED	WA112B	Battery Voltage from Splice 26 (Fuse FL-6)
2	RED	WA102B	Battery Voltage from Fuse B-1 to Mirror Heater Relay (RH)
3	RED/BLK	KA014B	Switched Output Voltage from the Starter Cut Relay
4	GRN	SA050B	Ignition Voltage from Fuse B-2 to Inline H-195 pin 10 (Not Used)
5	—	—	Not Used
6	GRN/YEL	RA007B	Ignition Voltage from Fuse B-3 to Radio
7	BLK/YEL	WA111B	Battery Voltage from Splice 27 (Fuse FL-5)
8	BLK/GRN	WA010B	Battery Voltage from Fuse B-4 to Mirror Heater Relay (LH)

Behind the Center of the I/P, Right of the Fuse/Relay Center (Cab)


B-271
B-218
B-272
A-1
B-273
Fuse/Relay Center Cab
A-4
B-250
B-1
B-603
X-4
X-5
X-6
X-7
X-8
B-276
X-1
X-9
X-2
X-14
B-4
X-15
B-275
X-10
F-15
F-1
X-16
X-3
F-34
F-16
X-11
X-12
F-31
X-13
F-30

4890920

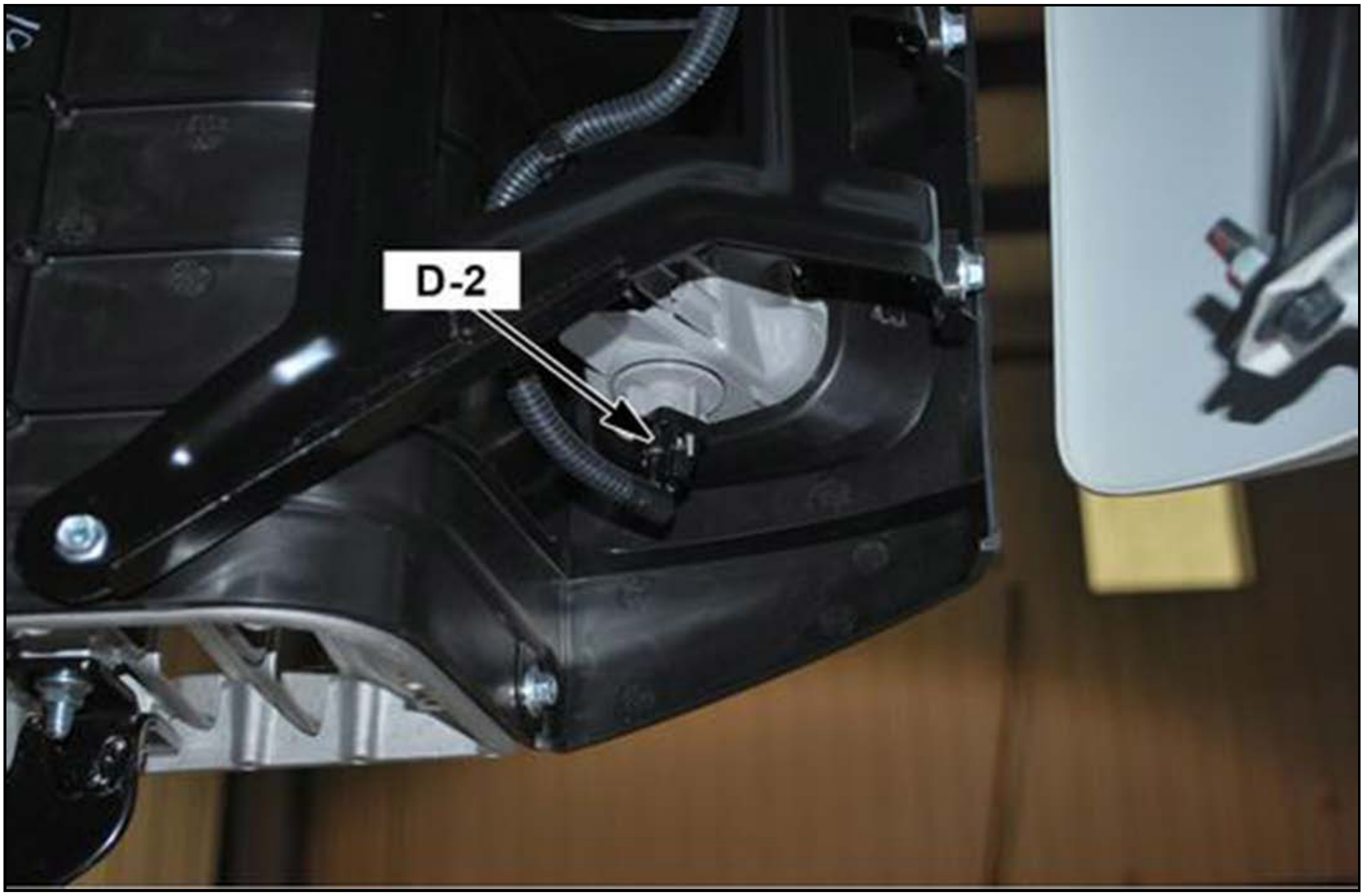
D-2 Front Cornering Lamp (LH)



4891153

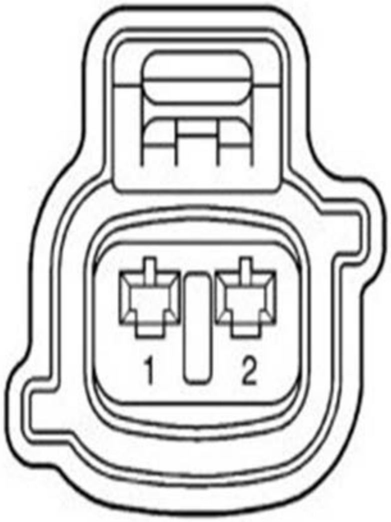
Connector Part Information		- 7323-8523-30 - 2-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/BLK	QB002B	Cornering Lamp (LH) Control to Combination Switch
2	BLK/RED	QB004B	X-5 Cornering Lamp Relay Switched Output Voltage from J/B 1 (B-138 pin 15)

Left Front Corner of the Vehicle



4891154

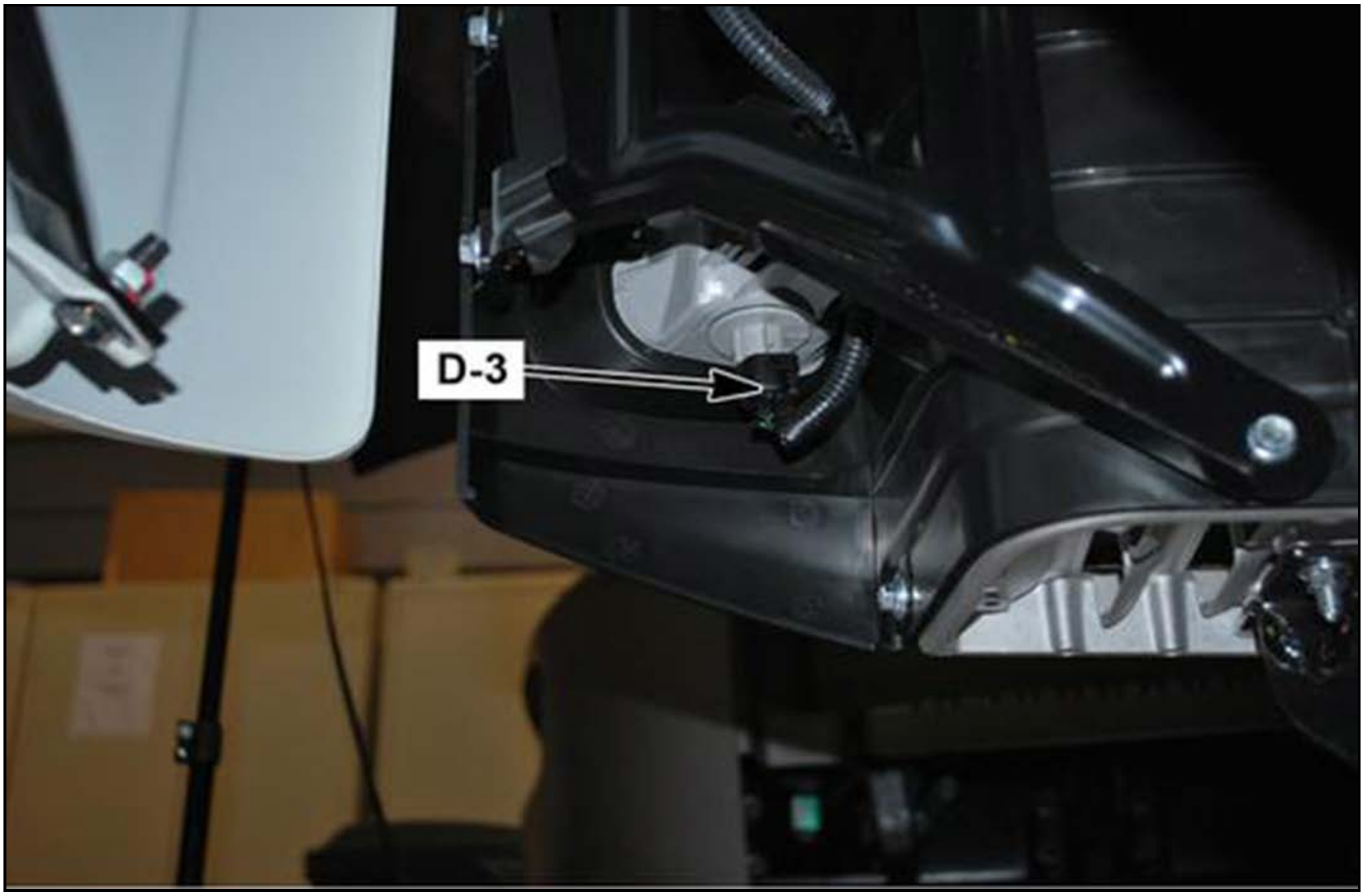
D-3 Front Cornering Lamp (RH)



4891153

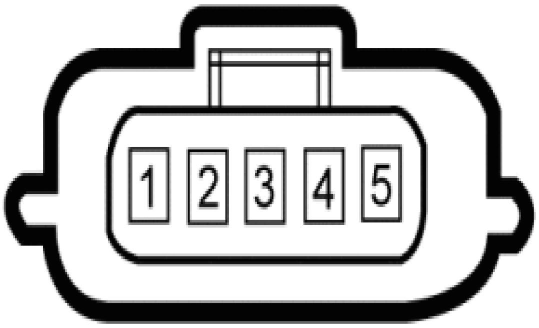
Connector Part Information	- 7323-8523-30 - 2-Way F (BLK)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/WHT	QB003B	X-5 Cornering Lamp Relay Switched Output Voltage from J/B 1 (B-138 pin 6)
2	BLK/RED	QB005B	Cornering Lamp (RH) Control to Combination Switch

Right Front Corner of the Vehicle



4891157

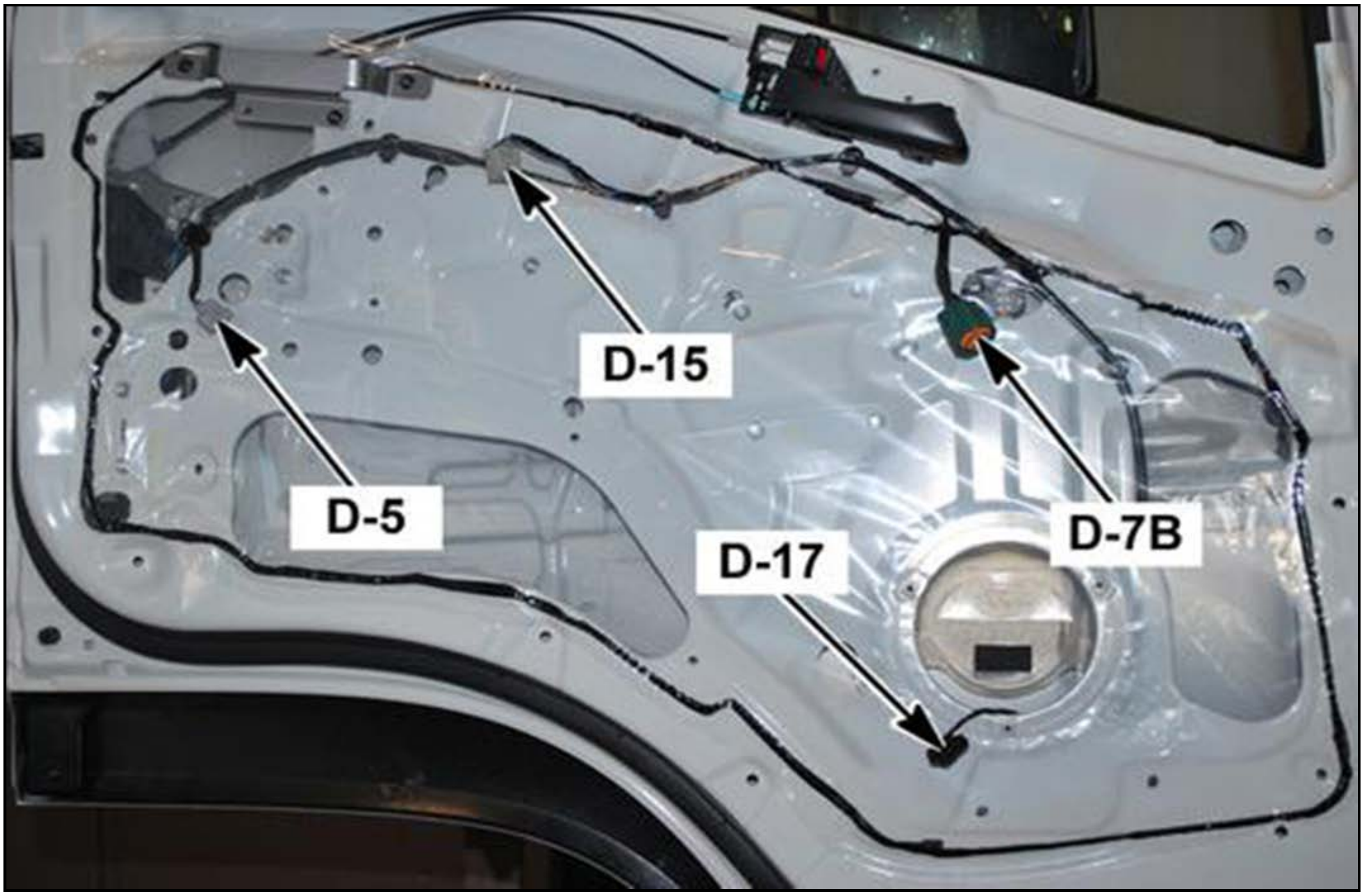
D-5 Front Door Lock Motor (LH)



4891165

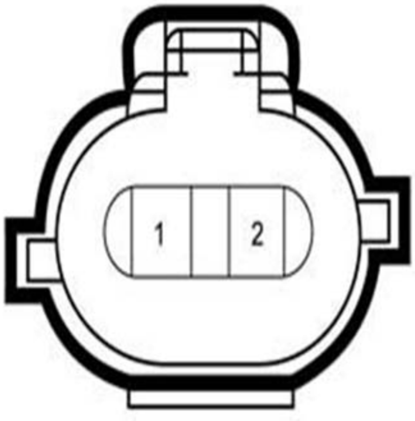
Connector Part Information		- 6098-0307 - 5-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/GRN	VA105	Unlock Signal to RKE Module
2	GRN/YEL	VA107	Door Lock Motor Lock Control
3	GRN/RED	VA106	Door Lock Motor Unlock Control
4	GRN/BLK	VA104	Door Lock Switch Signal
5	BLK	VX103	Ground to B-600 Splice Pack (B-51 Ground)

In the Left Front Door, On the Door Lock Motor



4891169

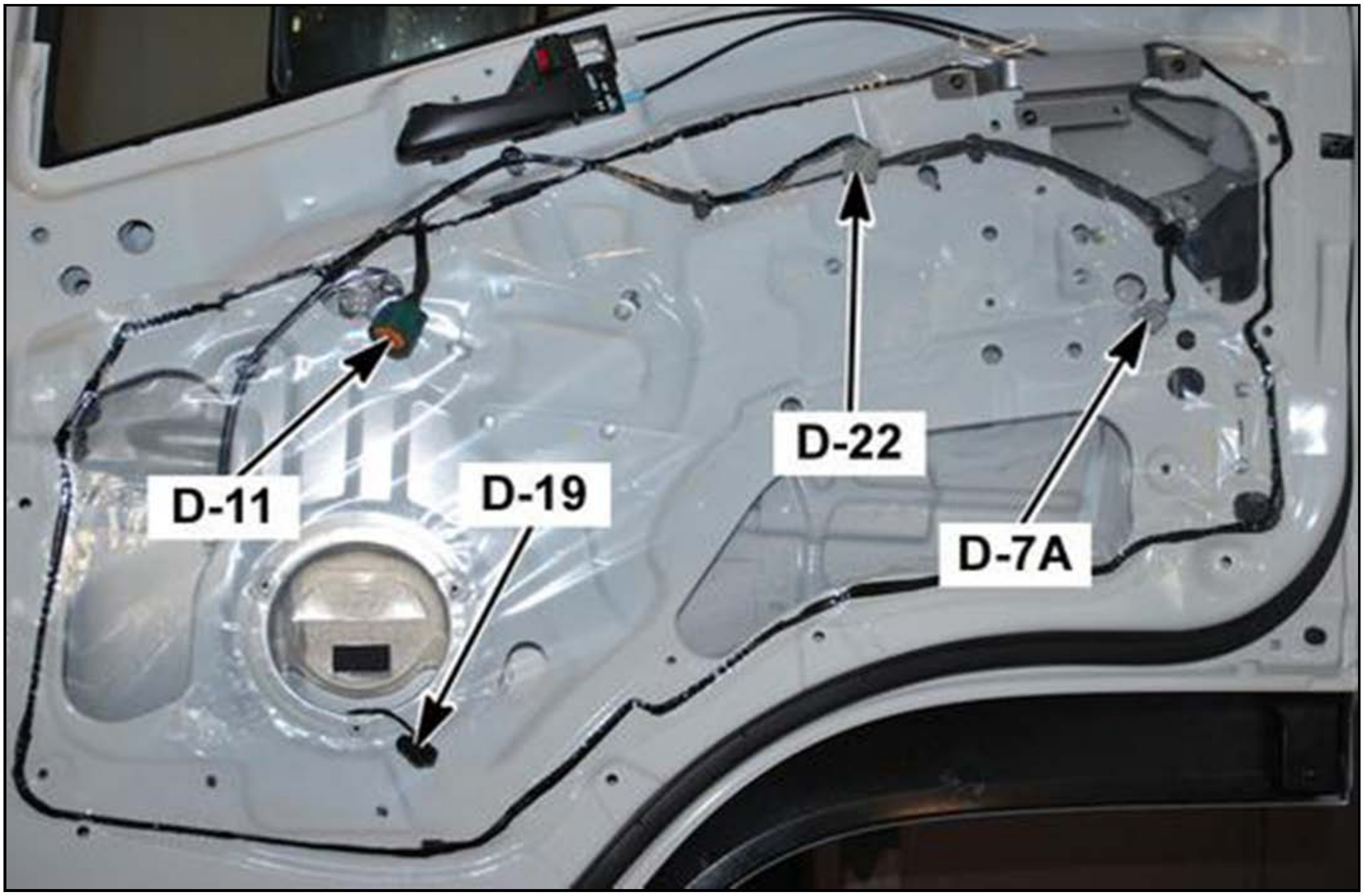
D-7A Front Door Lock Motor (RH)



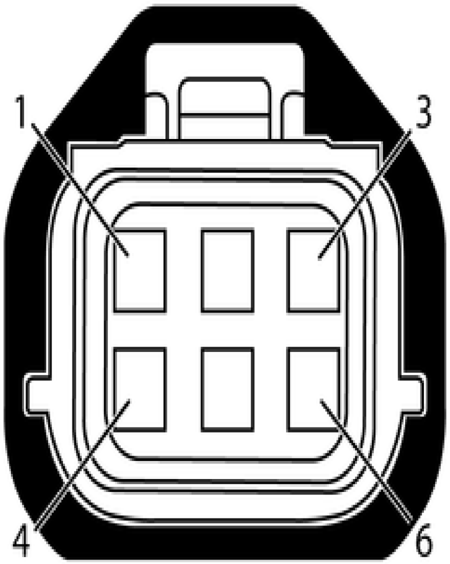
4891176

Connector Part Information	- 6189-0175 - 2-Way F (GRY)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/YEL	VA09	Door Lock Motor Lock Control
2	GRN/RED	VA08	Door Lock Motor Unlock Control

In the Right Front Door, On the Door Lock Motorq


D-22
D-11
D-19
D-7A
4891178

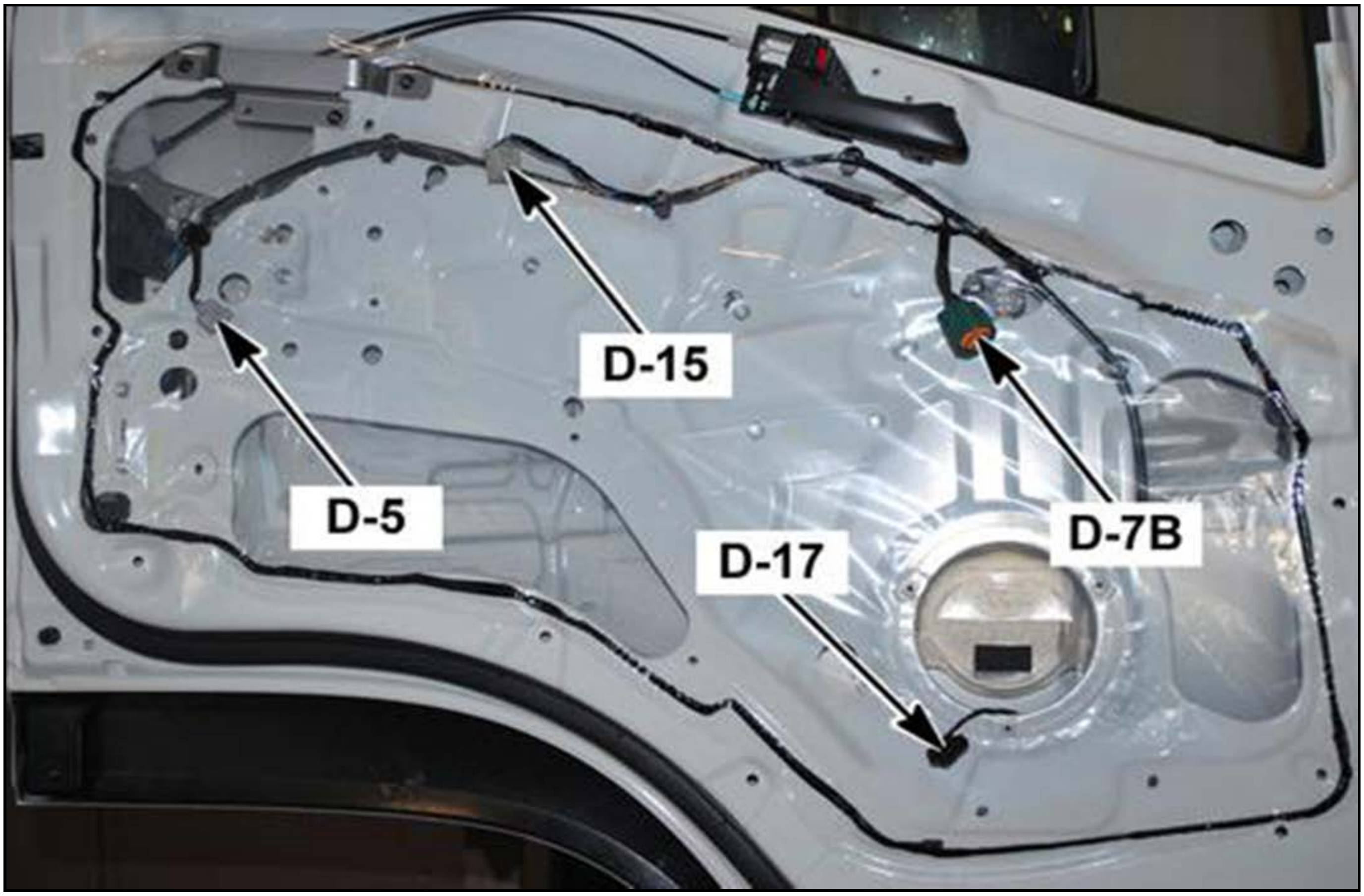
D-7B Front Power Window Motor (LH)



4891180

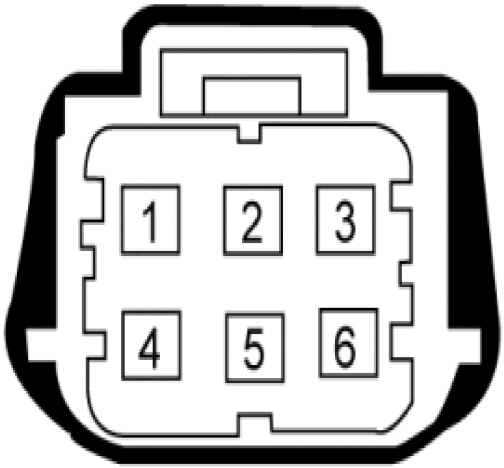
Connector Part Information	- 6189-0766 - 6-Way F (GRN)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU/BLK	UA02	Up Motor Control
2	—	—	Not Used
3	BLU	UA01	Down Motor Control
4–6	—	—	Not Used

In the Left Front Door, On the Power Window Motor



4891169

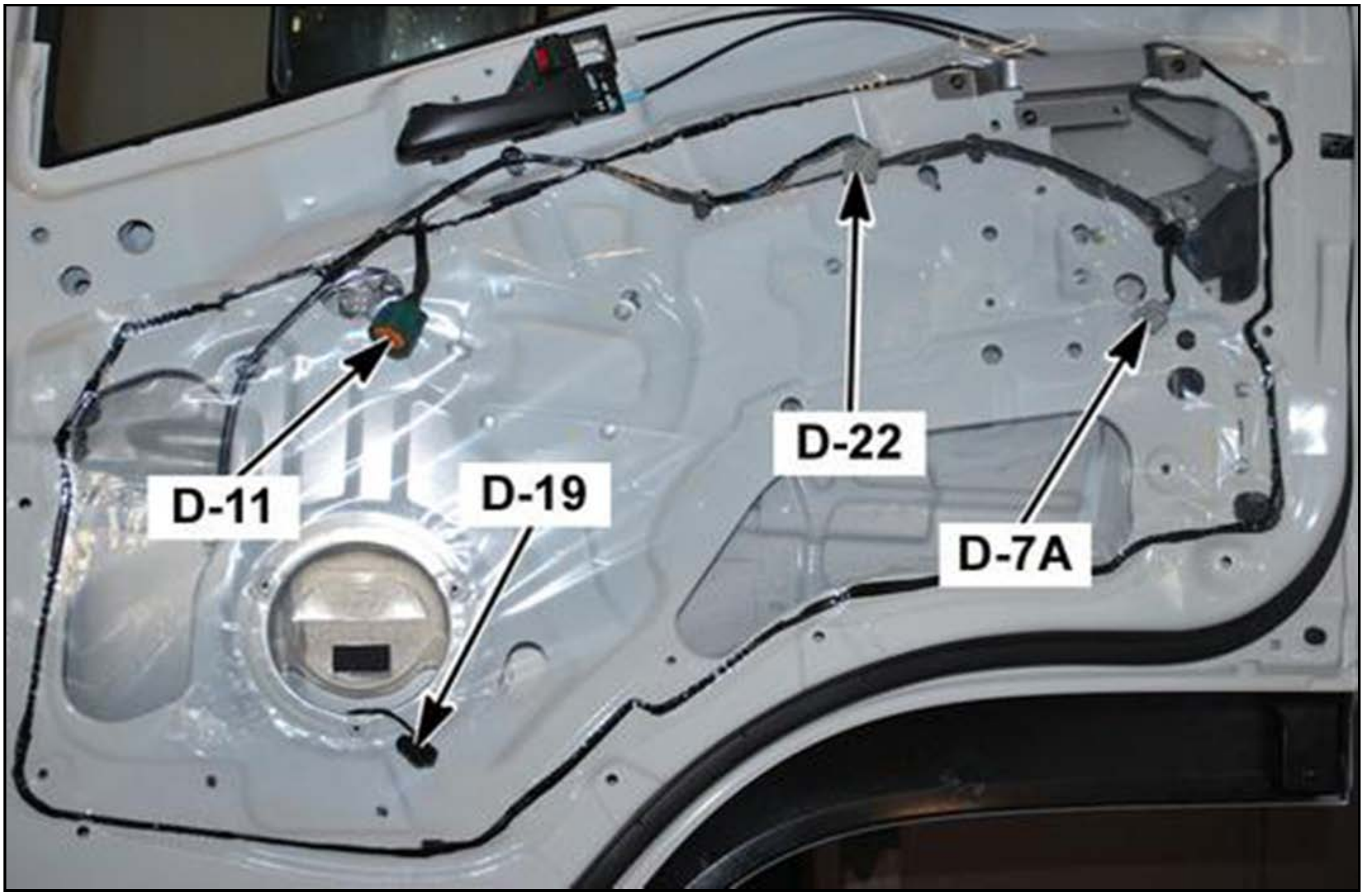
D-11 Front Power Window Motor (RH)



4891190

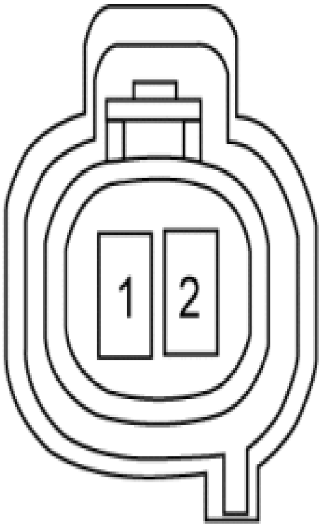
Connector Part Information		• 6189-0766 • 6-Way F (GRN)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK/WHT	UA07	Window Motor DOWN Control
2	—	—	Not Used
3	BLK/RED	UA06	Window Motor UP Control
4–6	—	—	Not Used

In the Right Front Door, On the Power Window Motor



4891178

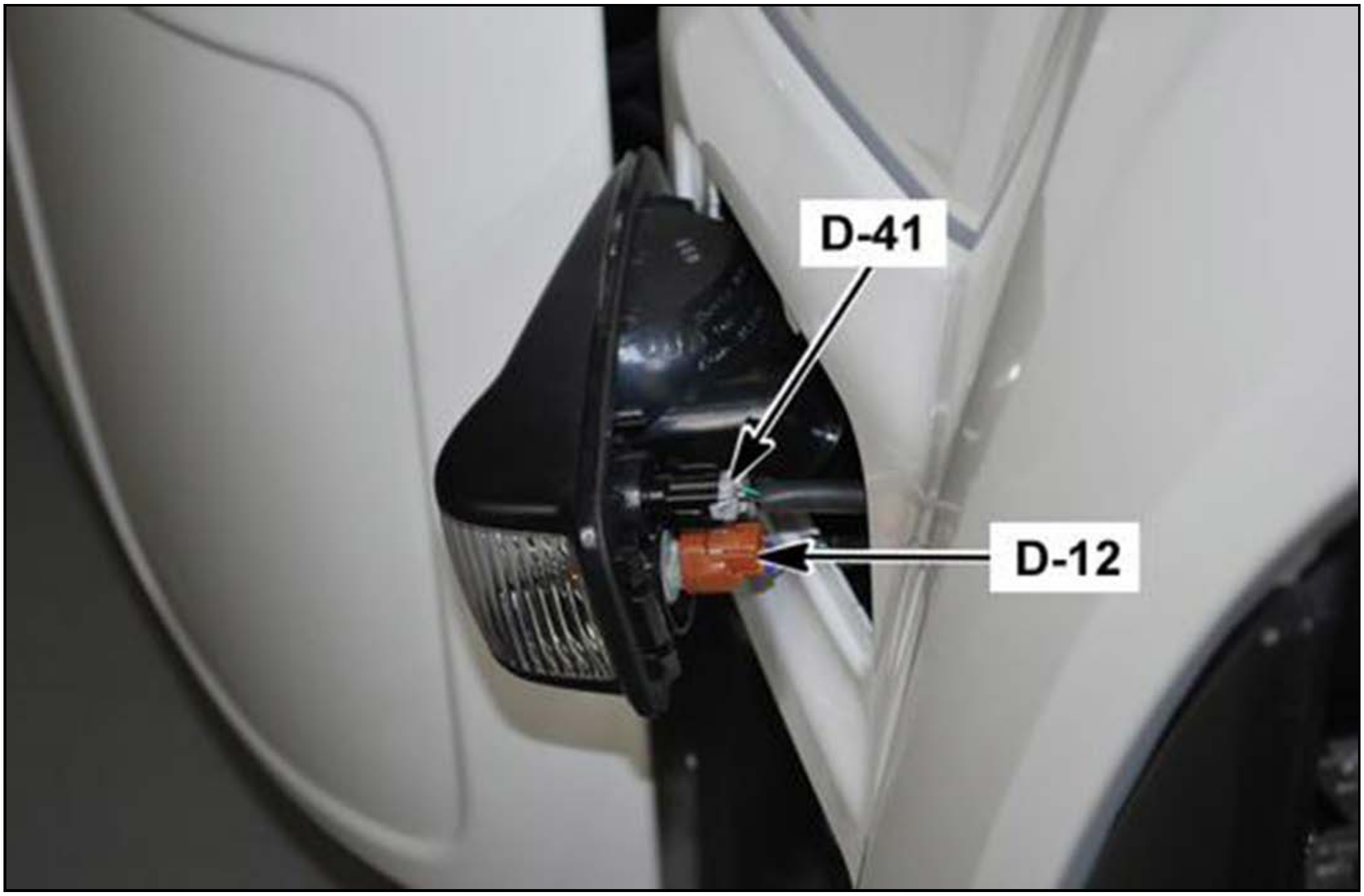
D-12 Side Turn Signal (LH)



4891199

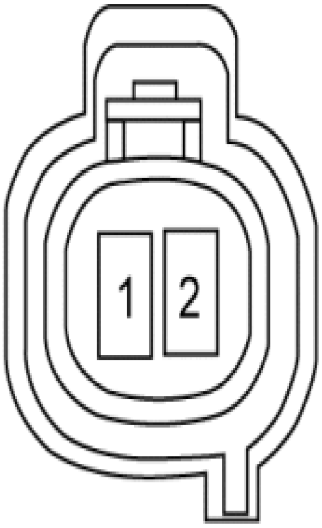
Connector Part Information		• 7323-8523-30 • 2-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/WHT	JA11	Side Turn Signal Control Voltage
2	BLK	JX03	Ground to B-377 Splice Pack (B-51 Ground)

Left Lower Door Panel



4891204

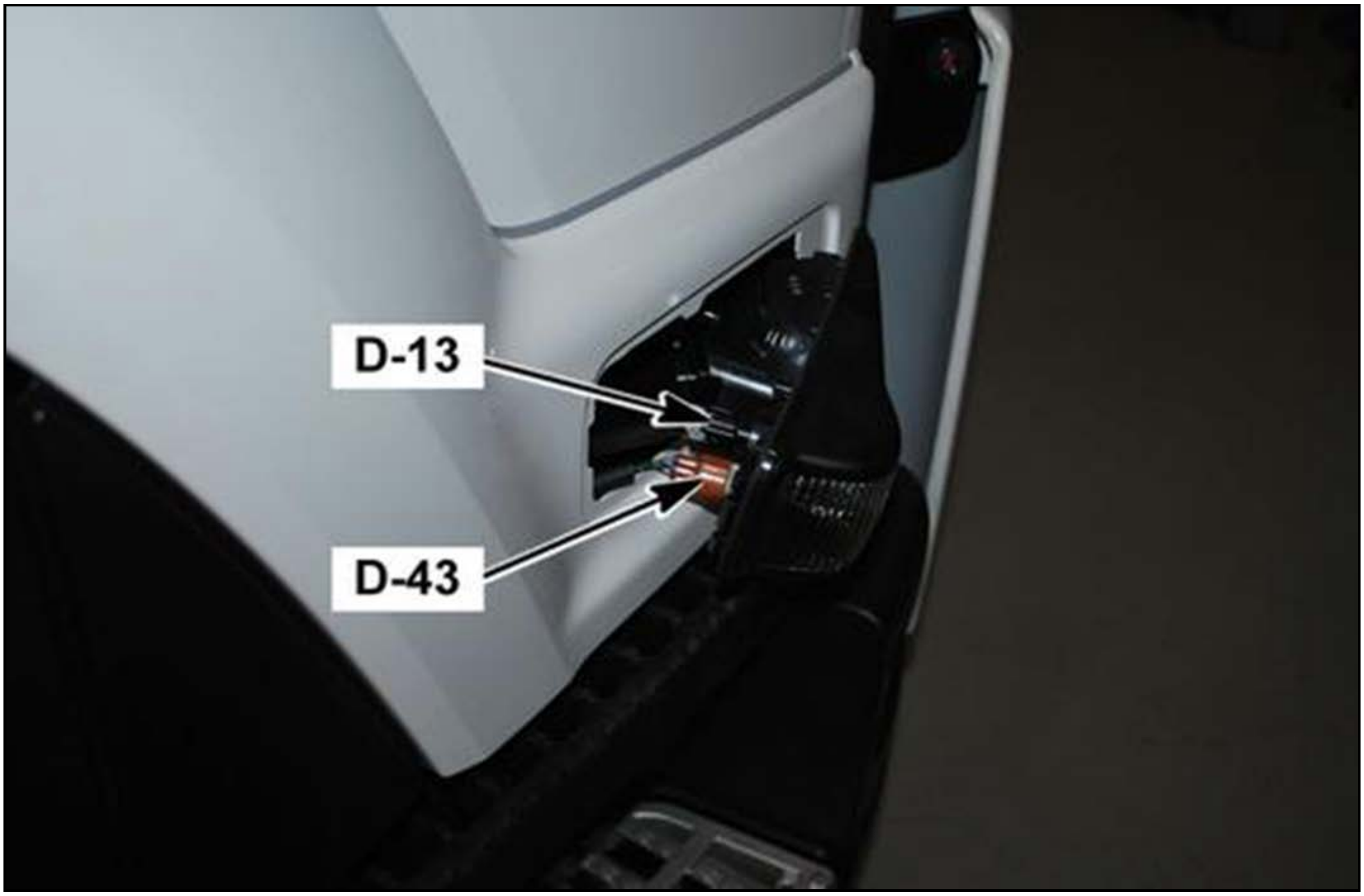
D-13 Side Turn Signal (RH)



4891199

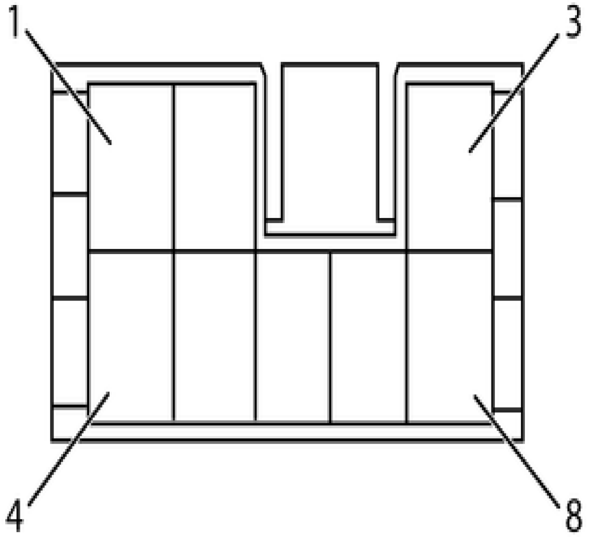
Connector Part Information		- 7323-8523-30 - 2-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/BLK	JA10	Side Turn Signal Control Voltage
2	BLK	JX04	Ground to J/B 2 (B-145 pin 7) (B-53 Ground)

Right Lower Door Panel



4891298

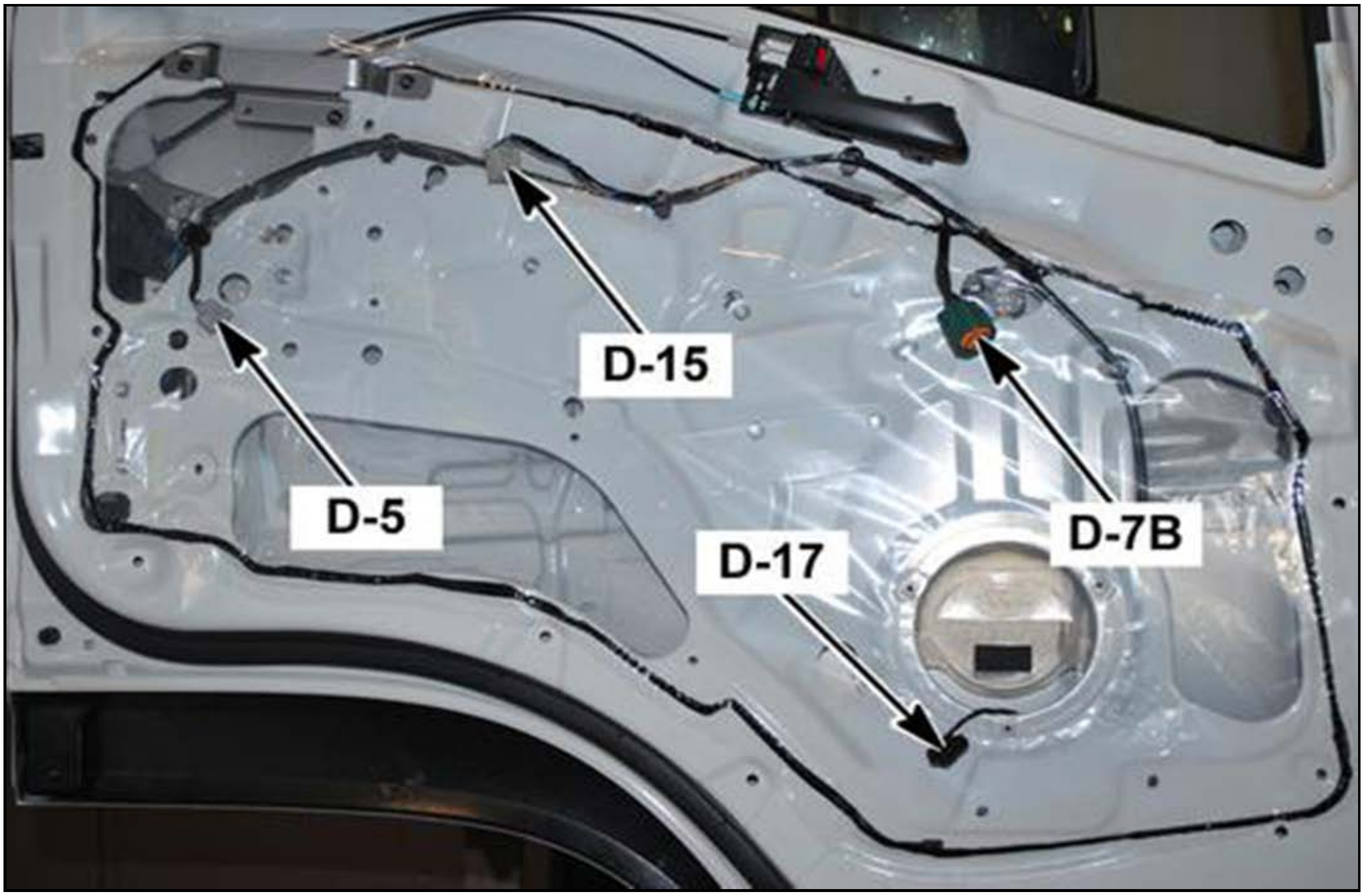
D-15 Front Power Window Switch (LH)



4891314

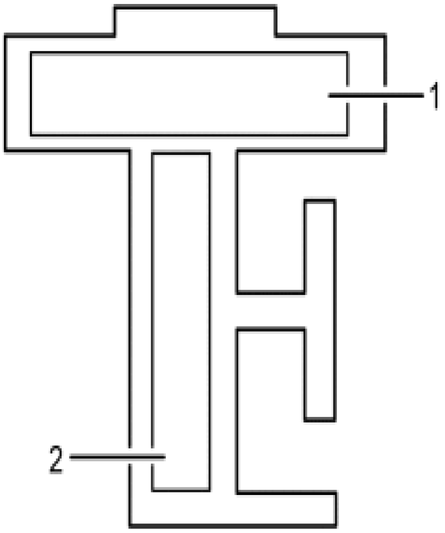
Connector Part Information	• 6240-5081 • 8-Way F (WHT)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	—	—	Not Used
2	BLU	UA01	Up Control to Front Power Window Motor (LH)
3	BLU/BLK	UA02	Down Control to Front Power Window Motor (LH)
4	BLK	UX01	Ground to B-49 Junction Block (B-52 Ground)
5	BLU/WHT	UA04	Up Control to the Front Power Window Switch (RH)
6	BLU/RED	UA05	Down Control to the Front Power Window Switch (RH)
7	BRN/YEL	UA03	Ignition Voltage from Fuse F-6
8	—	—	Not Used

In the Left Front Door, On the Front Power Window Switch



4891169

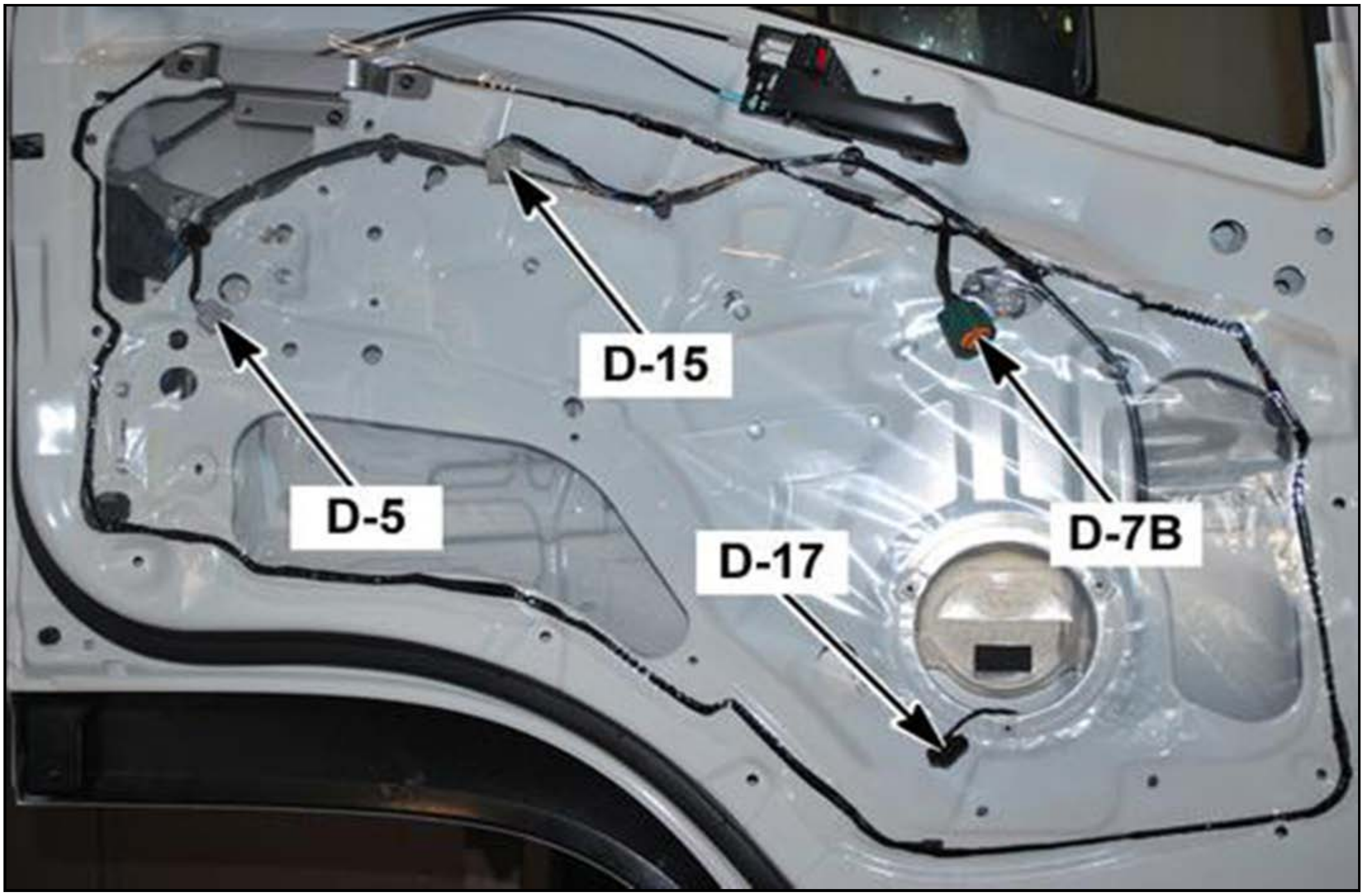
D-17 Speaker (LH)



4891328

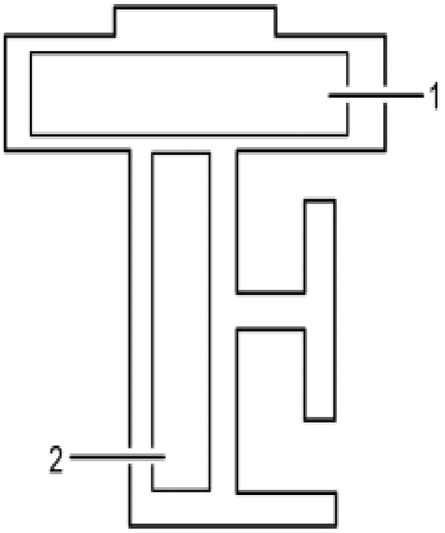
Connector Part Information		- 172434-2 - 2-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRY	RA06	Speaker Output (+)
2	GRN	RA05	Speaker Output (-)

In the Left Front Door, On the Back of the Speaker



4891169

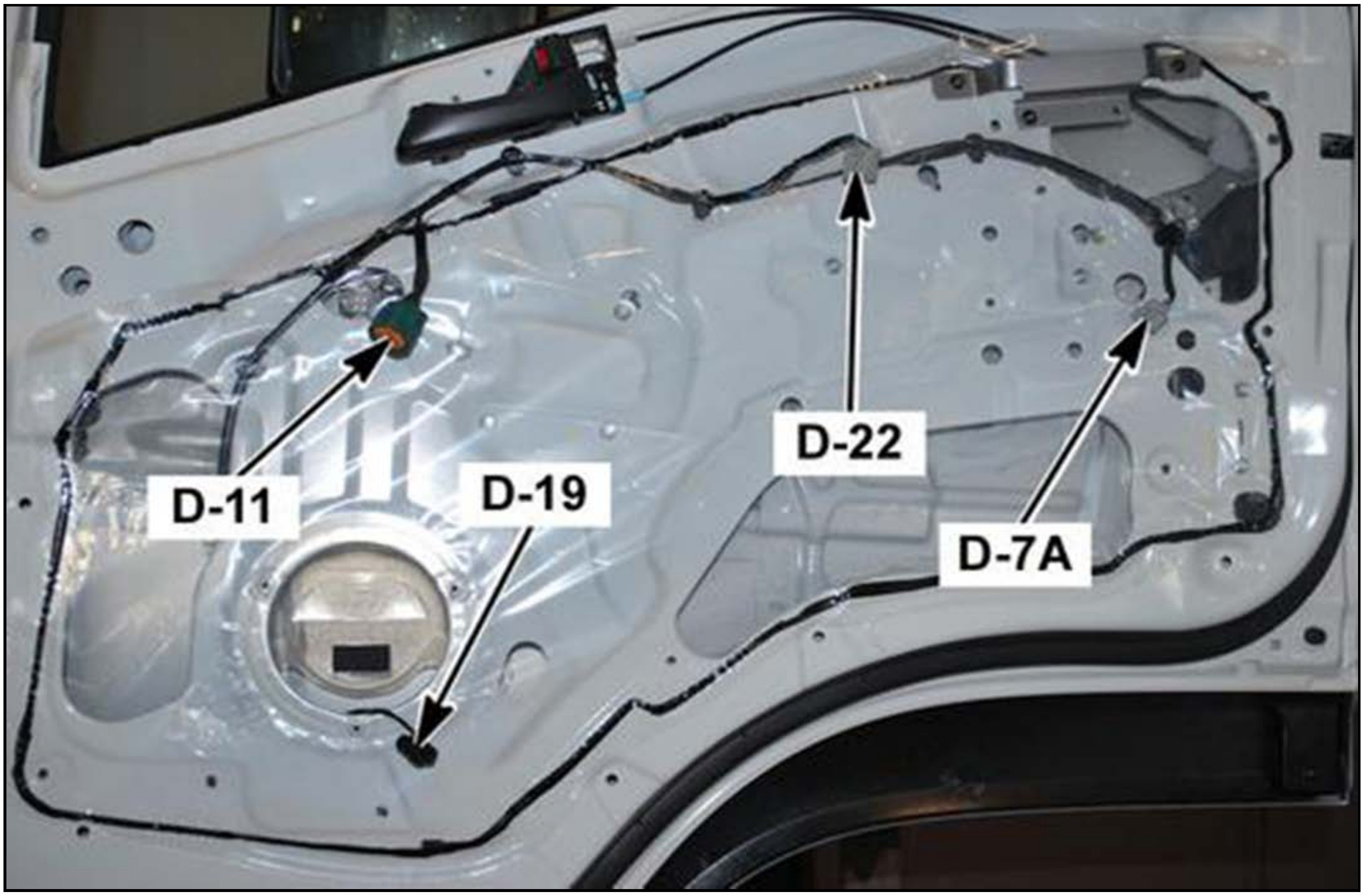
D-19 Speaker (RH)



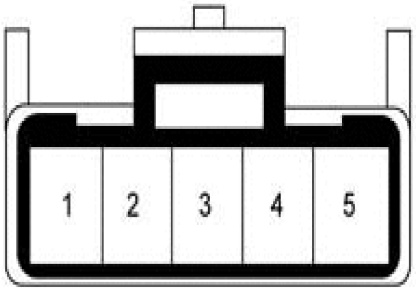
4891328

Connector Part Information		- 172434-2 - 2-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	ORN	RA04	Speaker Output (+)
2	BLK	RA03	Speaker Output (-)

In the Right Front Door, On the Back of the Speaker


D-11
D-19
D-22
D-7A
4891178

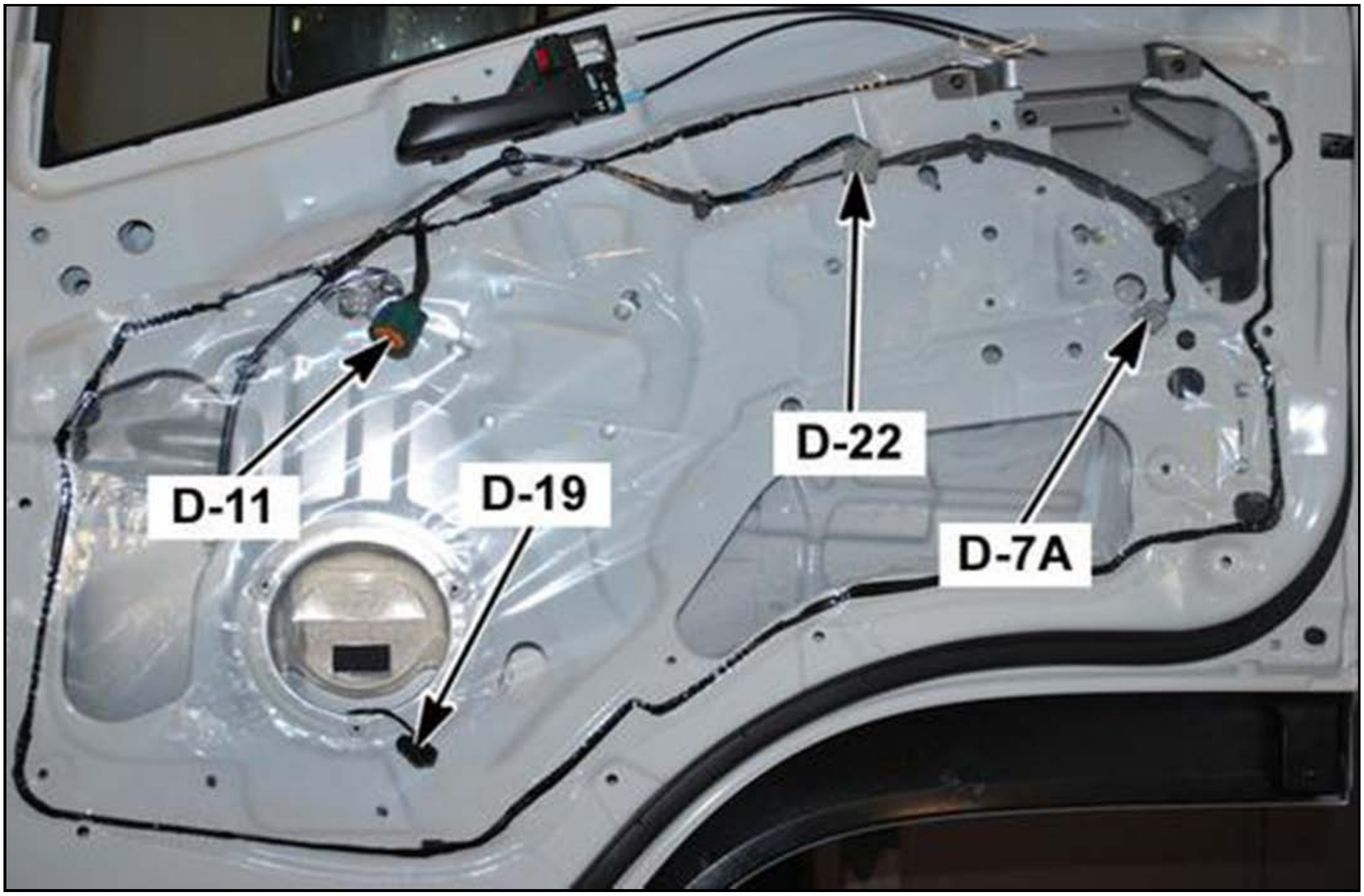
D-22 Front Power Window Switch (RH)



4891343

Connector Part Information		• 6098-0344 • 5-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK/WHT	UA07	Window Motor DOWN Supply Voltage
2	BLU/RED	UA23	Window Motor DOWN Signal
3	BRN/YEL	UA16	Ignition Voltage from Fuse F-6
4	BLU/WHT	UA22	Window Motor UP Signal
5	BLK/RED	UA06	Window Motor UP Supply Voltage

In the Right Front Door, On the Front Power Window Switch

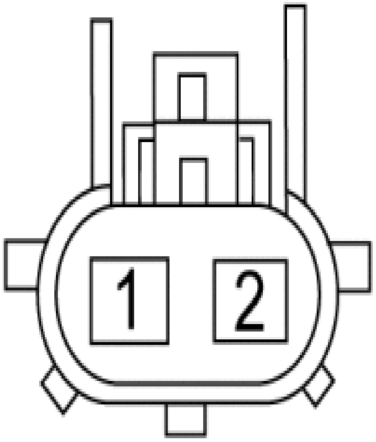


4891178

D-40 Heated Mirror (LH)

Connector Part Information		• 7383-7029-30 • 2-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	YEL/RED	WA11B	Mirror Heater Relay (LH) (Switched Output Voltage) to Upper Mirror Heater
2	BLK/RED	WX107	Ground to B-49 Junction Block (B-52 Ground)

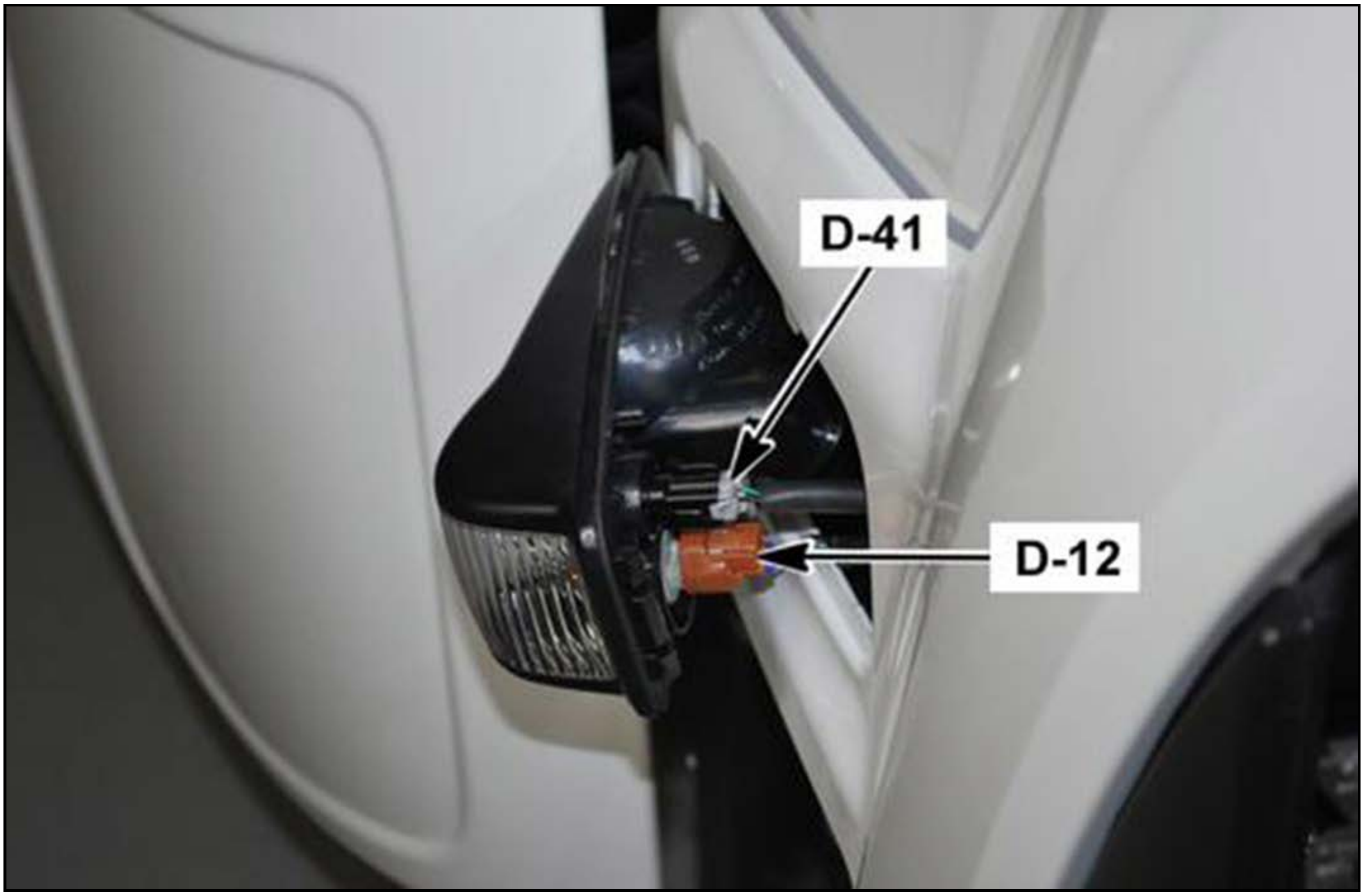
D-41 Side Marker Lamp (LH)



4891349

Connector Part Information		• 7323-6524-40 • 2-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/RED	BA40	Fuse F-27 Voltage (Headlamp Switch ON)
2	BLK	BX24	Ground to B-601 Splice Pack (B-51 Ground)

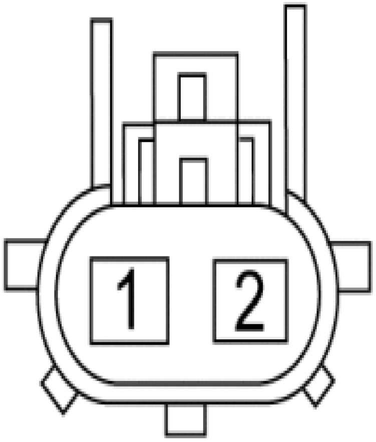
Left Lower Door Panel


D-41
D-12
4891204

D-42 Heated Mirror (RH)

Connector Part Information		- 7383-7029-30 - 2-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	YEL/RED	WA11B	Mirror Heater Relay (RH) (Switched Output Voltage) to Upper Mirror Heater
2	BLK/RED	WX107	Ground to B-48 Junction Block (B-53 Ground)

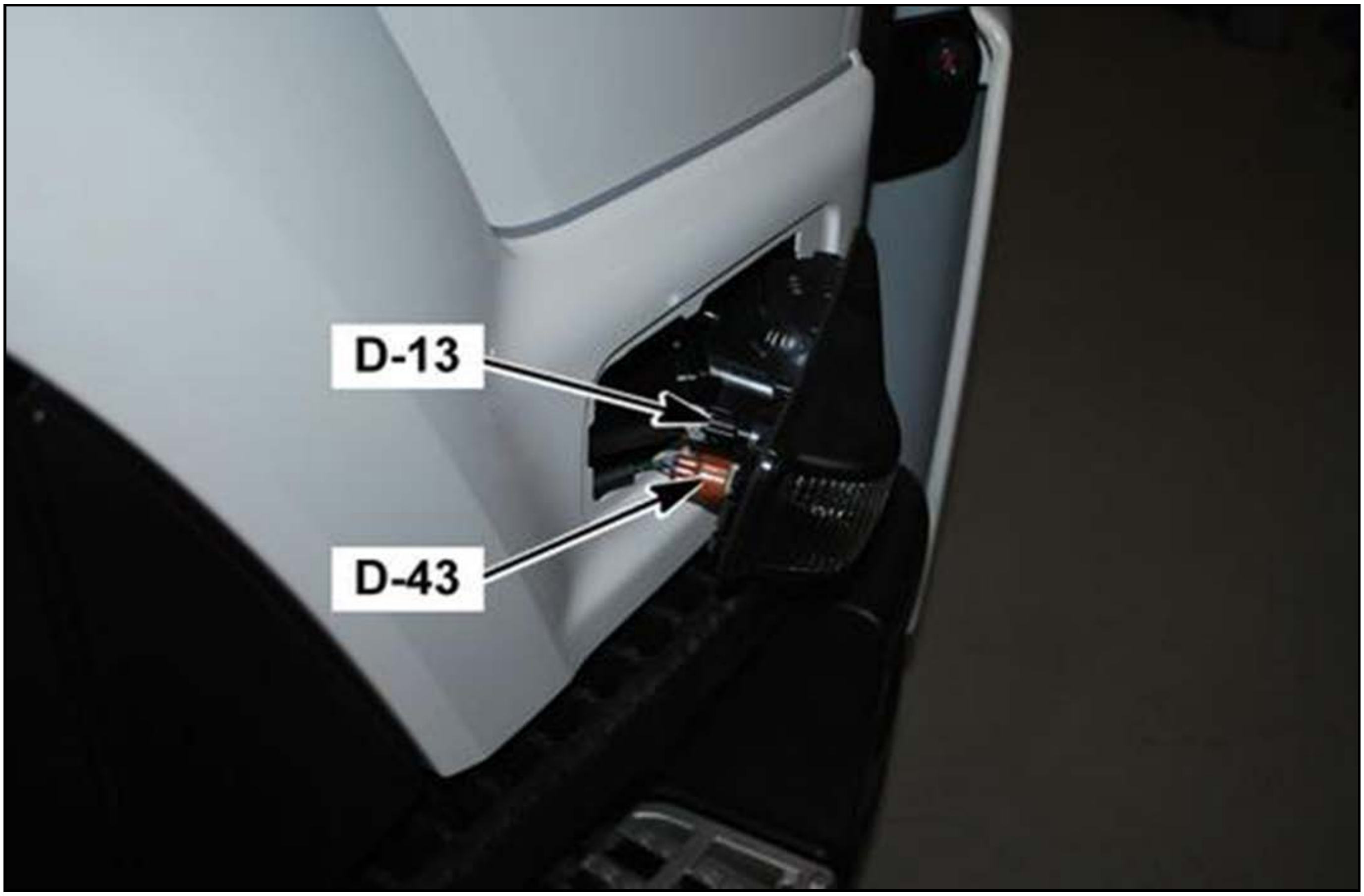
D-43 Side Marker Lamp (RH)



4891349

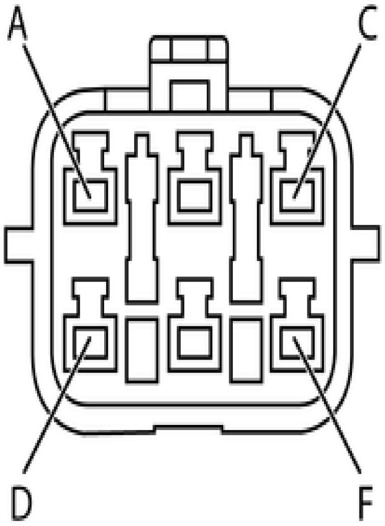
Connector Part Information		- 7323-6524-40 - 2-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/RED	BA41	Fuse F-27 Voltage (Headlamp Switch ON)
2	BLK	BX25	Ground to J/B 2 (B-144 pin 14) (B-53 Ground)

Right Lower Door Panel



4891298

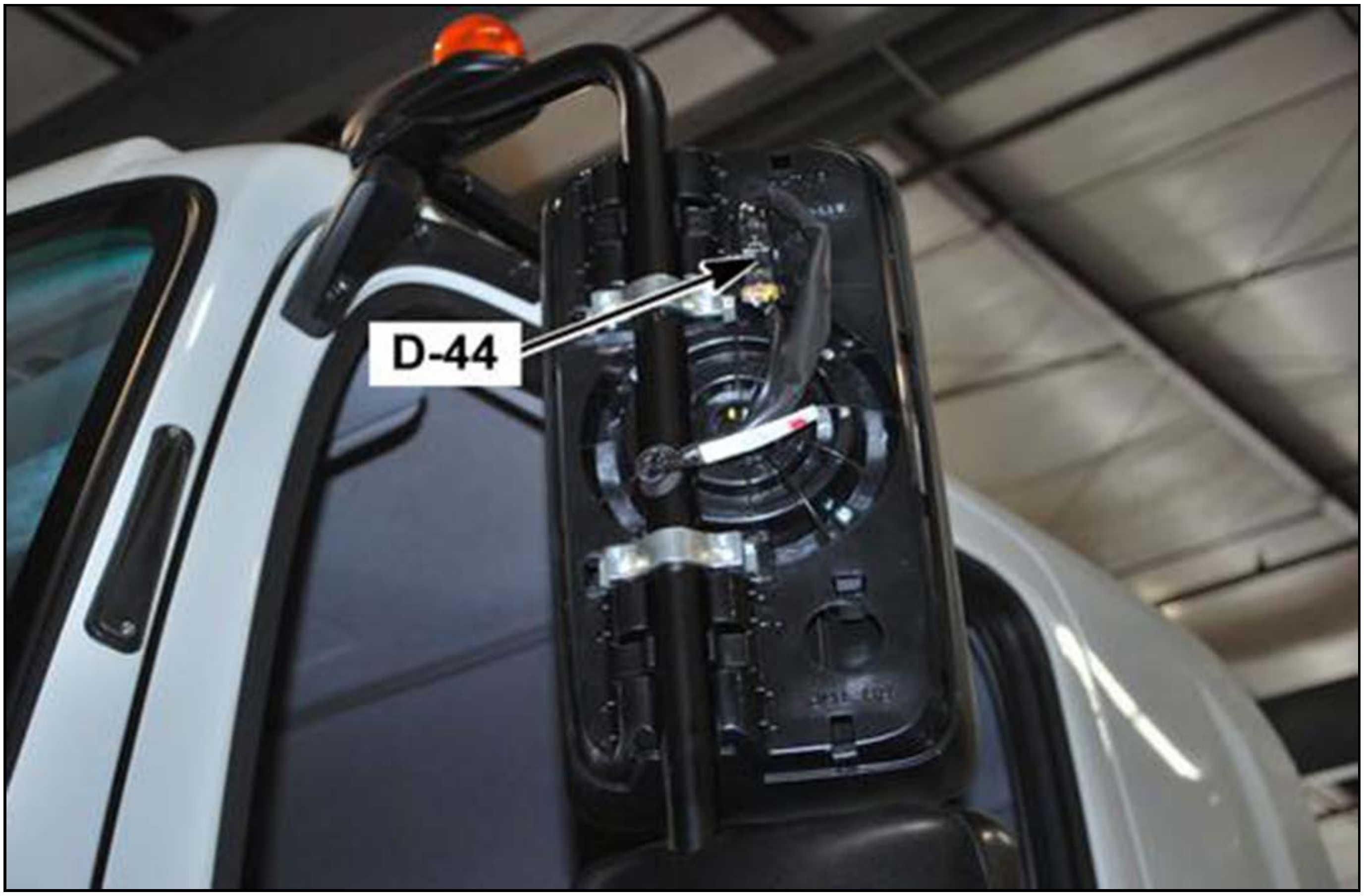
D-44 Power Mirror (LH)



4891353

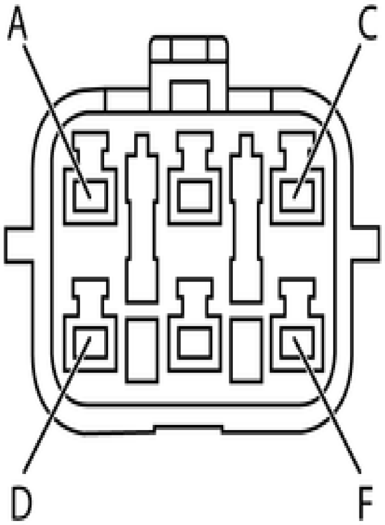
Connector Part Information		- 7323-7464-30 - 6-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
A	RED/YEL	WA16	Mirror Heater Relay (LH) (Switched Output Voltage) to Lower Mirror Heater
B	—	—	Not Used
C	BLK	WX05	Ground to B-48 Junction Block (B-53 Ground)
D	WHT/BLK	WA08	Up/Down Mirror Control
E	BLK/GRN	WA10	Left/Right Control
F	BLK/WHT	WA12	Common Control

Left Upper Mirror, Behind the Outer Cover



4891355

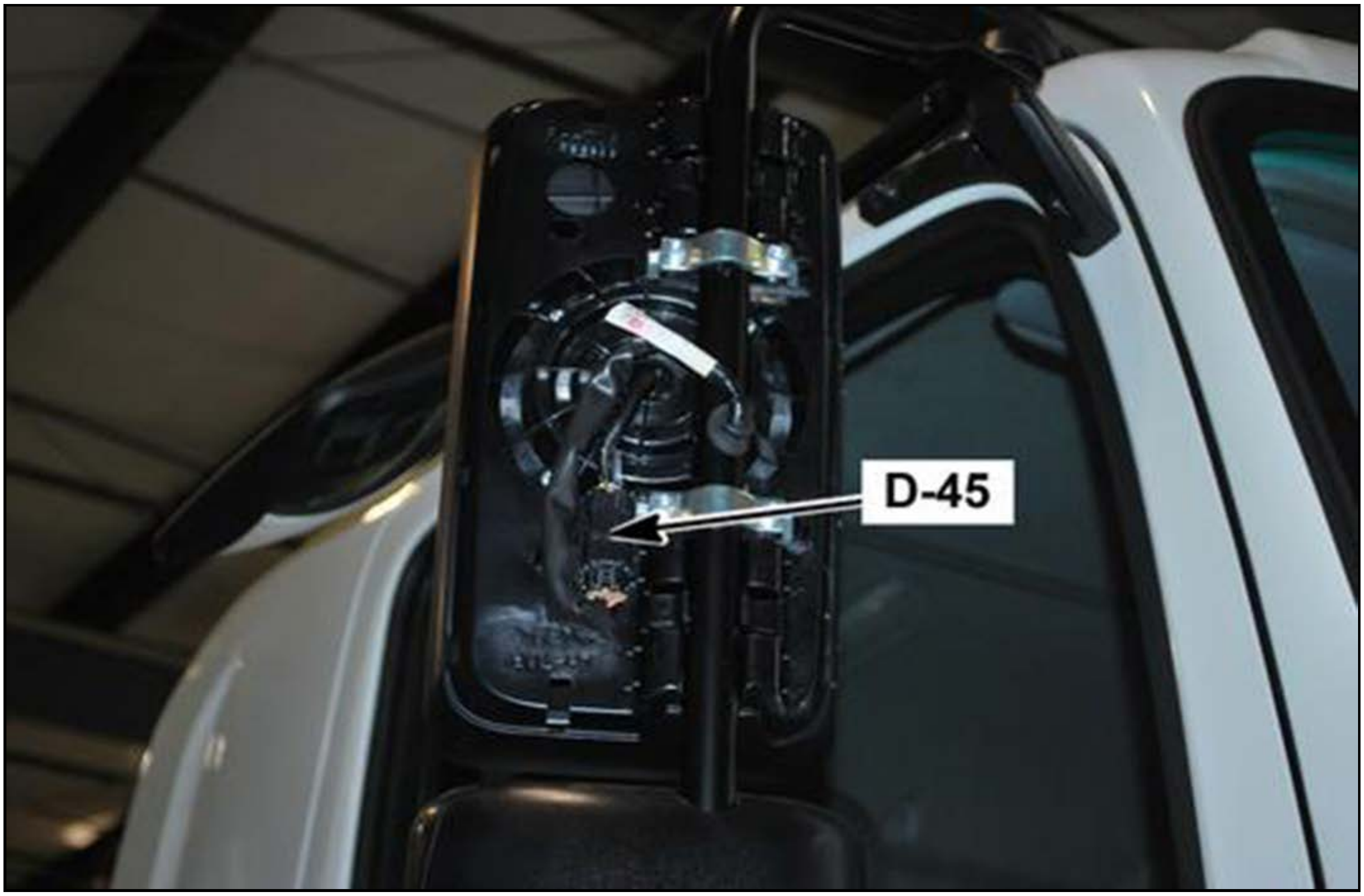
D-45 Power Mirror (RH)



4891353

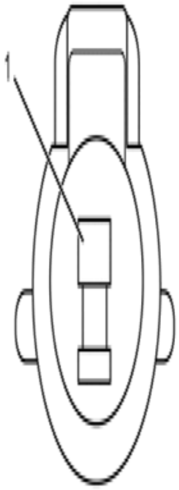
Connector Part Information	- 7323-7464-30 - 6-Way F (BLK)		
Pin	**Wire Color**	**Circuit Number**	**Function**
A	RED/YEL	WA16	Mirror Heater Relay (RH) (Switched Output Voltage) to Lower Mirror Heater
B	—	—	Left/Right Upper Mirror
C	BLK	WX05	Ground to B-48 Junction Block (B-53 Ground)
D	WHT/BLK	WA08	Up/Down Mirror Control
E	BLK/GRN	WA10	Left/Right Mirror Control
F	BLK/WHT	WA12	Common Mirror Control

Right Upper Mirror, Behind the Outer Coverq



4891361

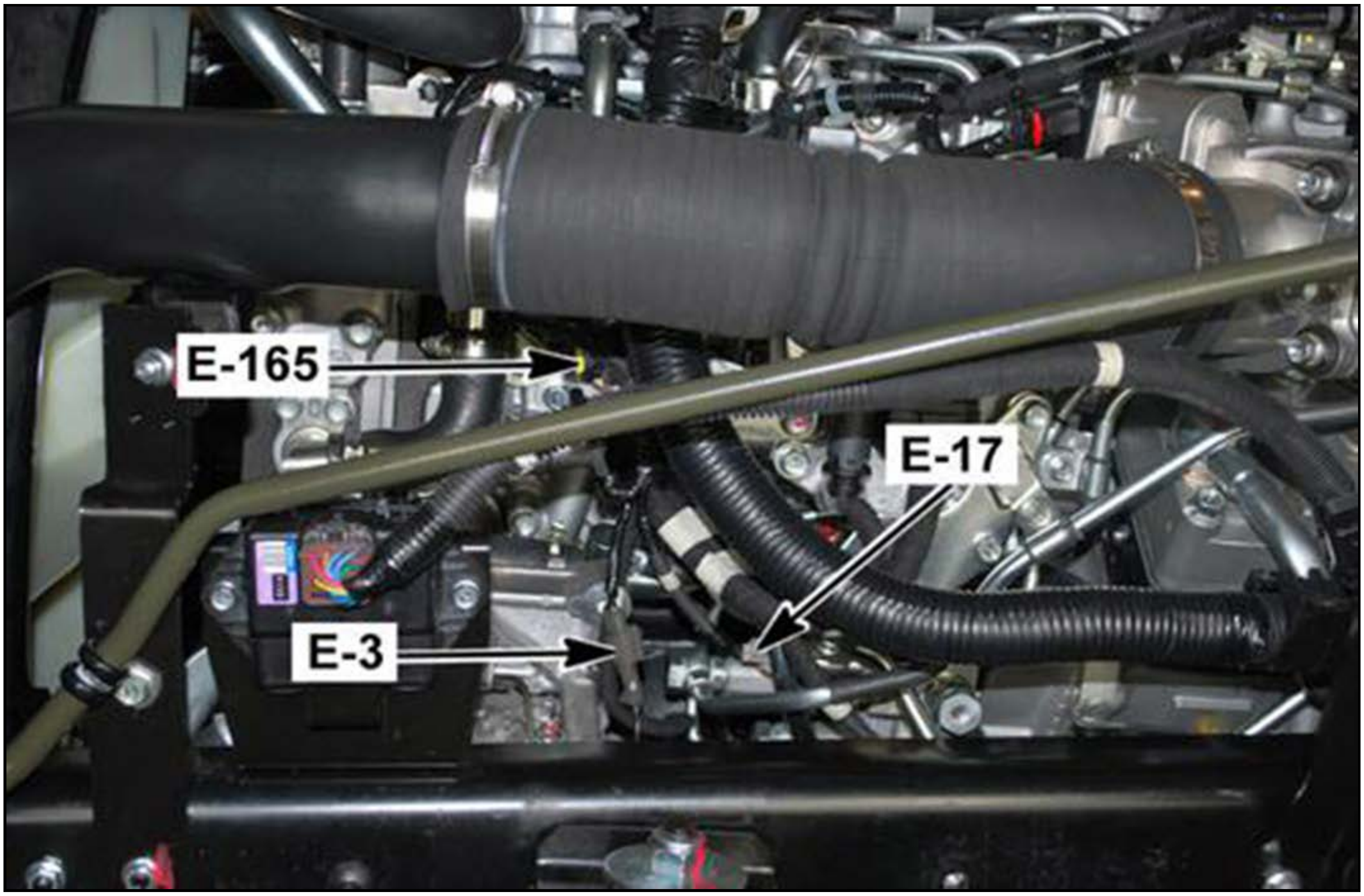
E-3 A/C Compressor



4891366

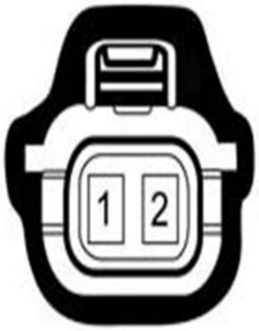
Connector Part Information	• 7323-7414-40 • 1-Way F (GRY)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BRN/YEL	HA12	A/C Compressor Clutch Supply Voltage

Lower Left Front of Engine



4891369

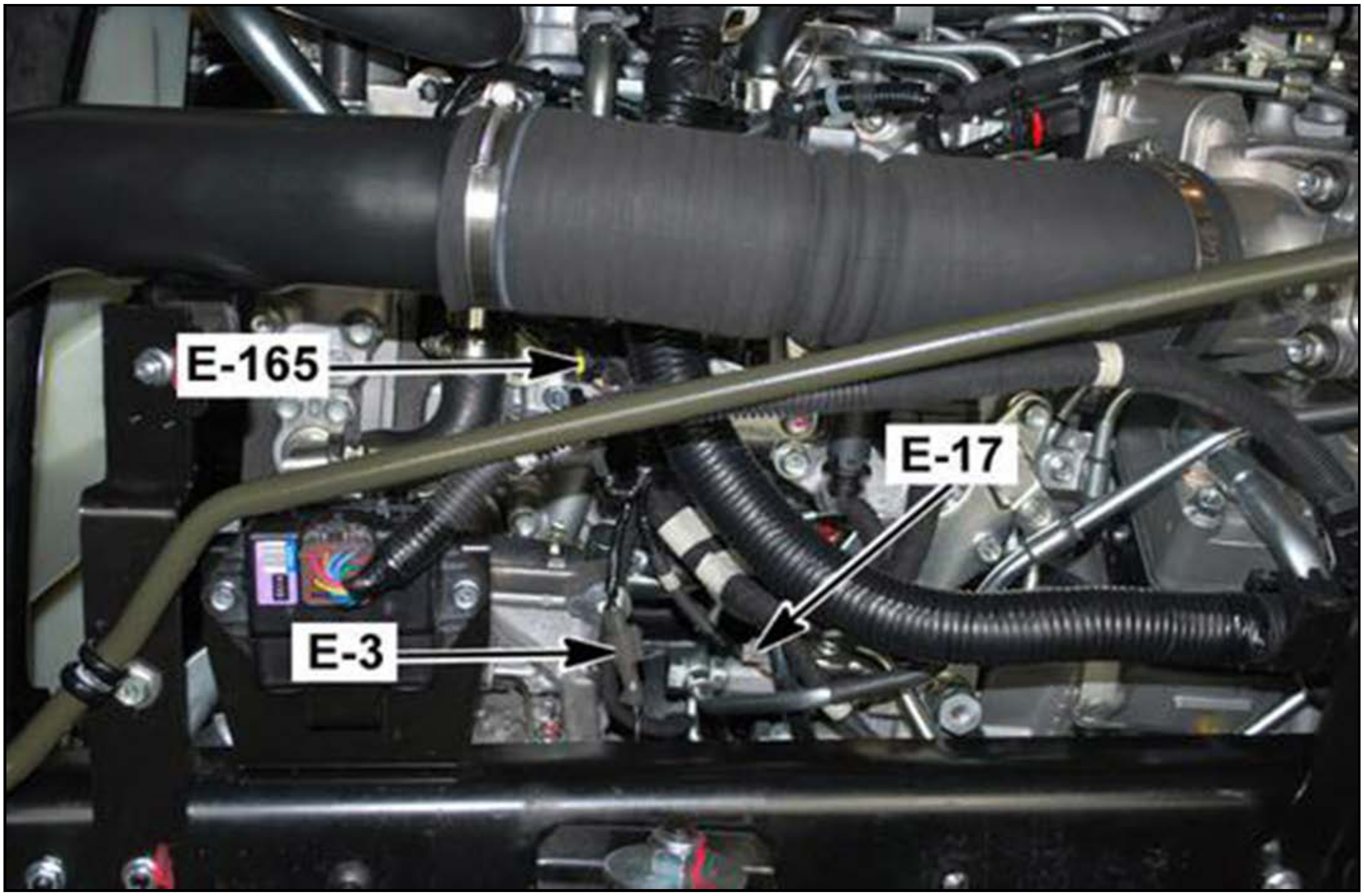
E-17 Fuel Rail Pressure (FRP) Regulator



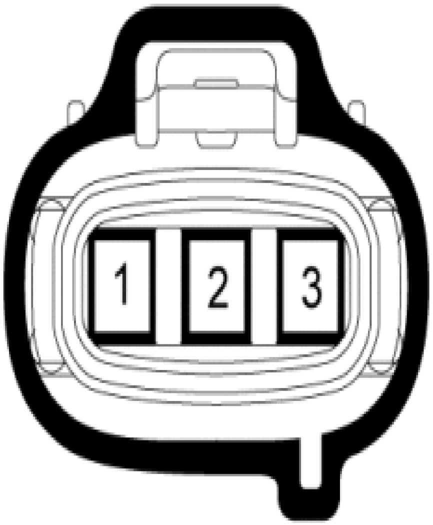
4891386

Connector Part Information		- 6189-0039 - 2-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT/BLU	IC110	Regulator Control High Side (PWM)
2	GRN/RED	IC112	Regulator Low Side

On the Lower Left Side of the Engine, On the Front of the Fuel Supply Pump

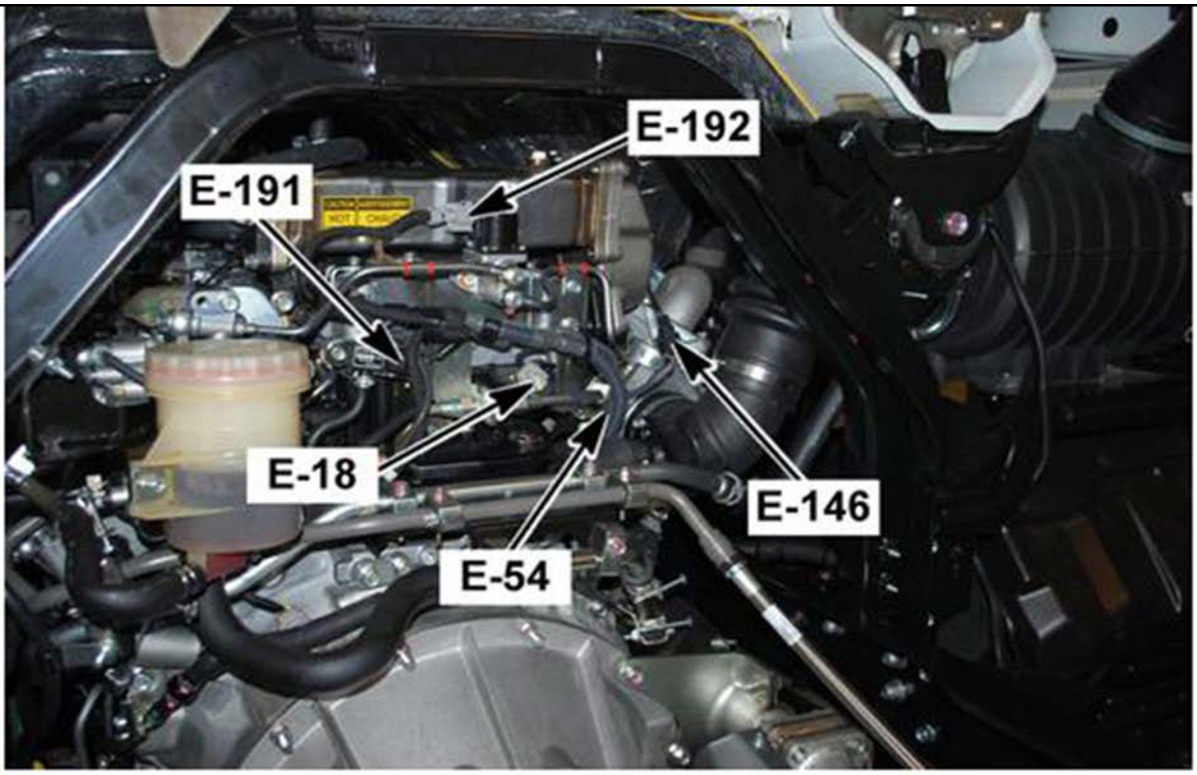

E-165
E-17
E-3
4891369

E-18 Camshaft Position (CMP) Sensor



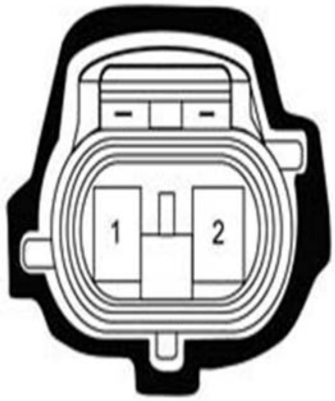
Connector Part Information		• 6248-5317 • 3-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU/WHT	IC128	Sensor Signal
2	BLU	IC129	Sensor Low Reference
3	BLU/RED	IC127	Sensor 5 Volt Reference 4

Back of the Cylinder Head


E-192
E-191
E-18
E-146
E-54

4891407

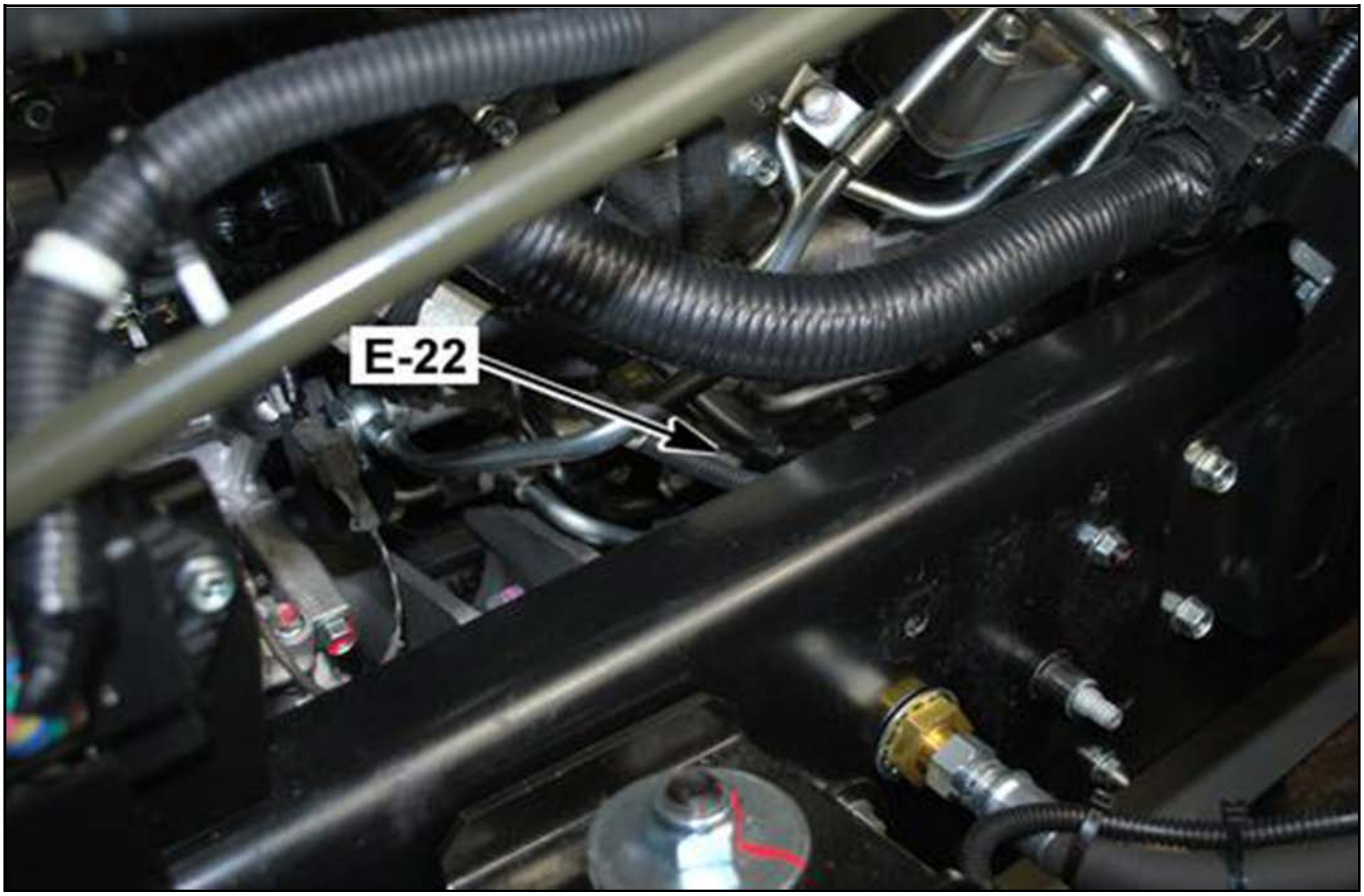
E-22 Fuel Temperature (FT) Sensor



4891413

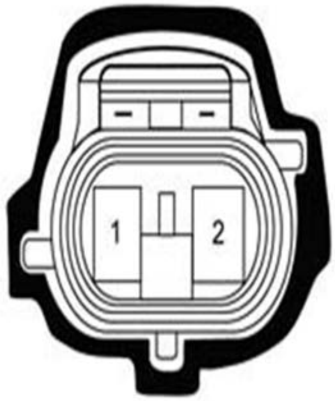
Connector Part Information		• 178392-6 • 2-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT/BLK	IC124	Sensor Low Reference
2	LT GRN/WHT	IC123	Sensor Signal

On the Lower Left Side of the Engine, Behind the Engine Mount, On the Side Fuel Supply Pump



4891415

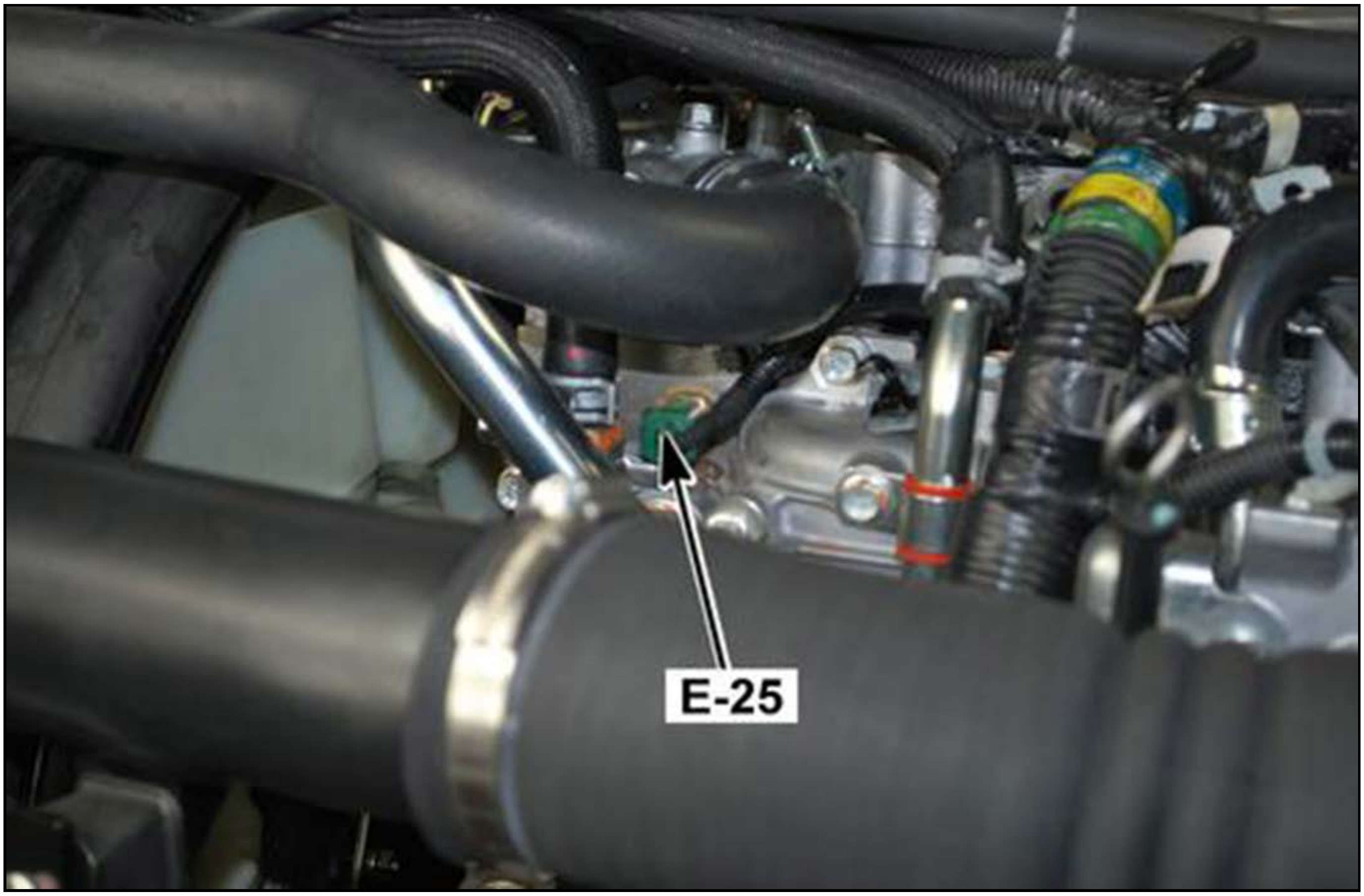
E-25 Engine Coolant Temperature (ECT) Sensor



4891413

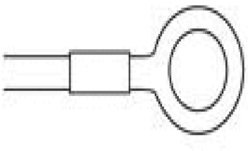
Connector Part Information		• 1-174347-4 • 2-Way F (GRN)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/YEL	IC125	Sensor Signal
2	BLK/BLU	IC126	Sensor Low Reference

On the Upper Left Side of the Engine, In the Cylinder Head, Below the Coolant Inlet



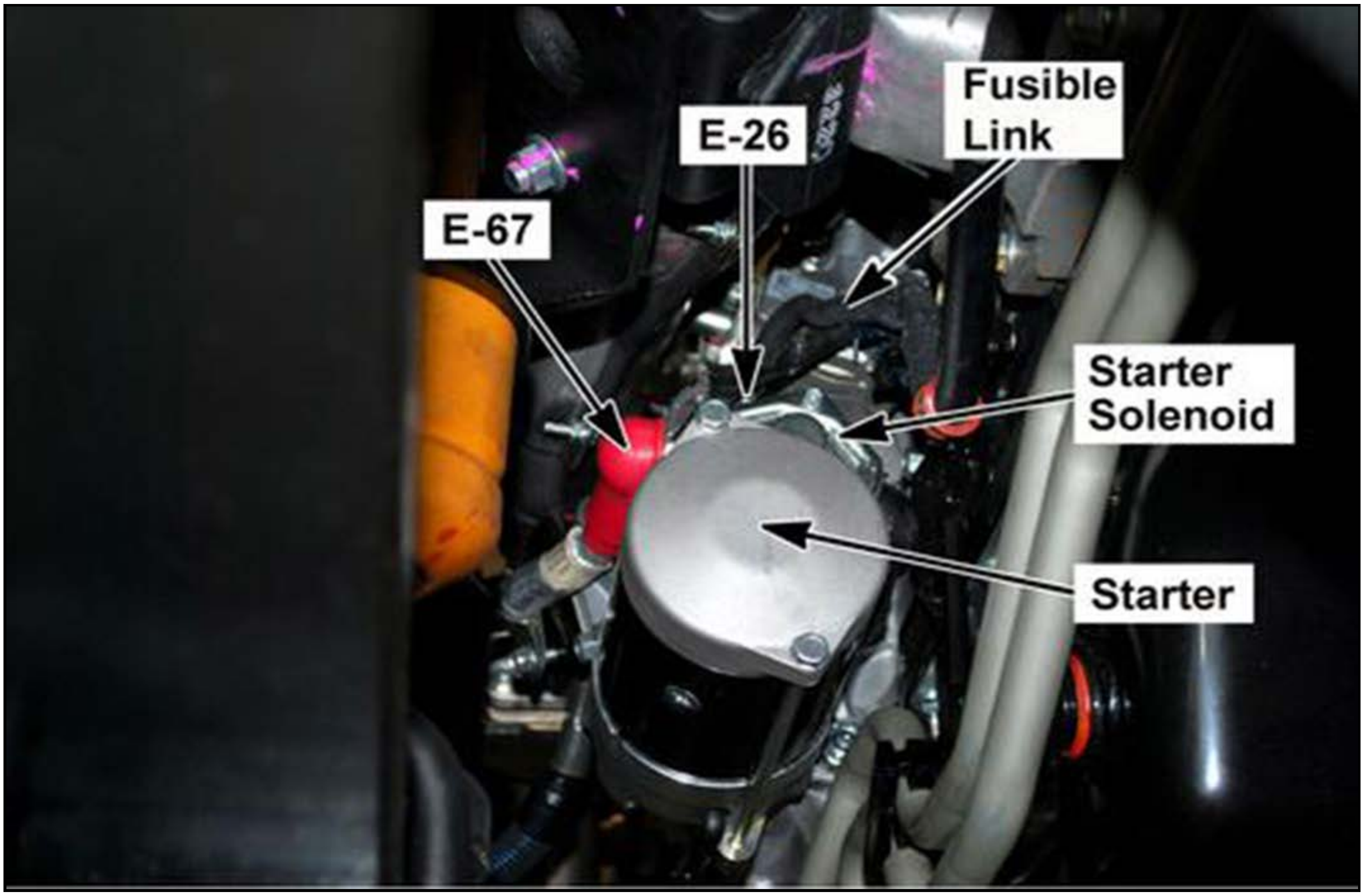
4891418

E-26 Starter Solenoid



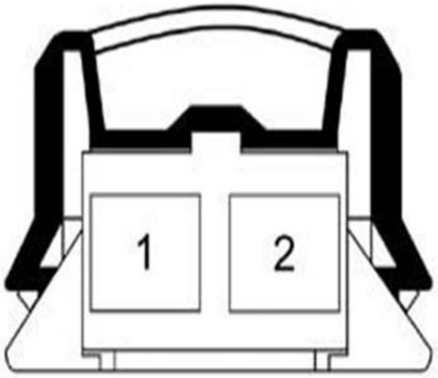
Connector Part Information		• 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK/WHT	LA02	Starter Solenoid Voltage from Starter Relay (X- 17)

Right Lower Side of the Engine


Fusible Link
E-26
E-67
Starter Solenoid
Starter

4891429

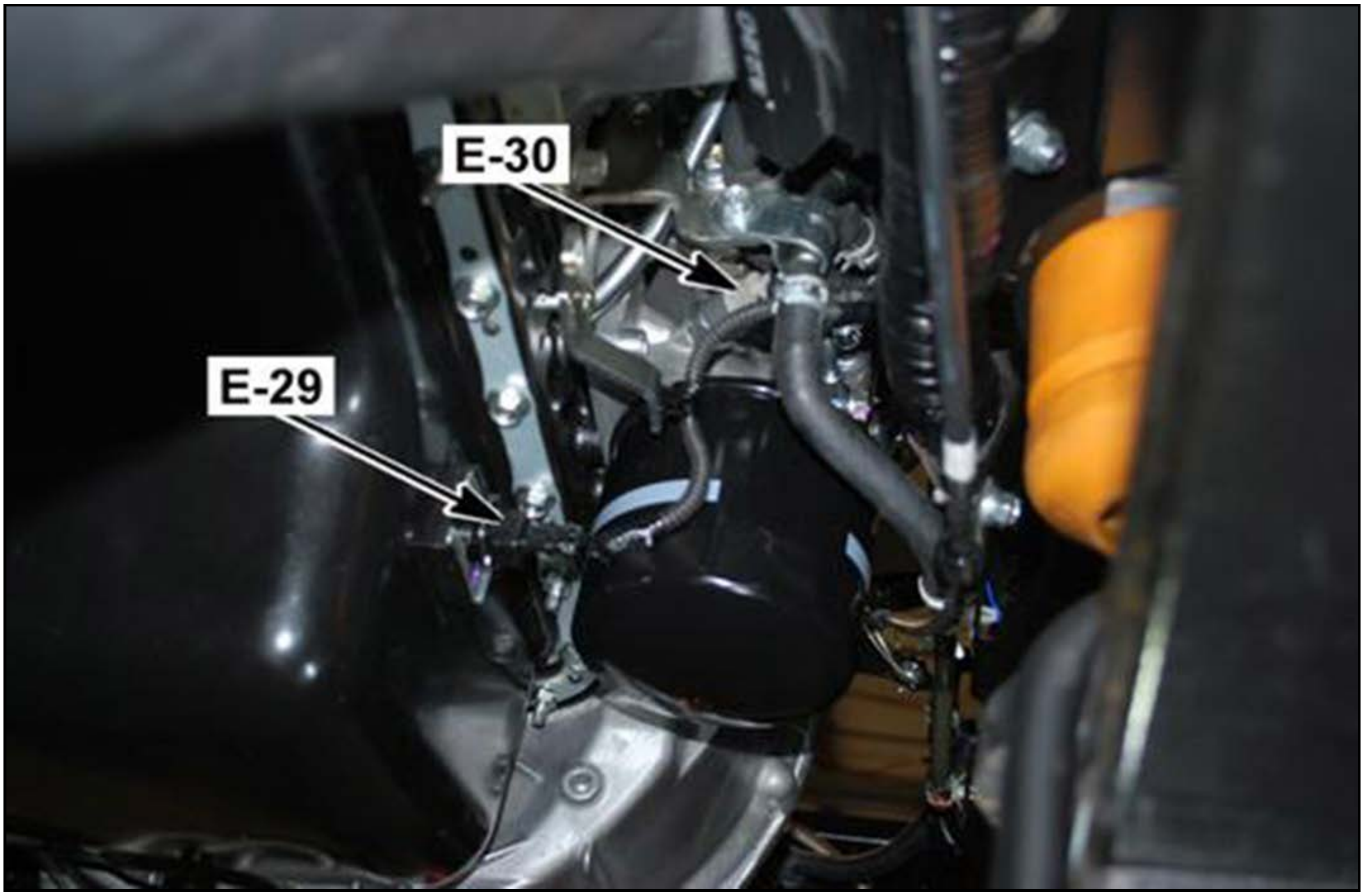
E-29 Engine Oil Level Switch



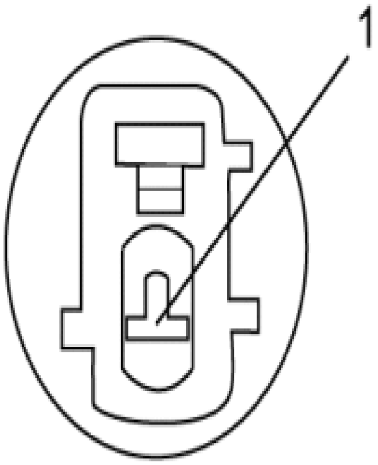
4891436

Connector Part Information		- 0-0282189-1 - 2-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/WHT	MA51	Oil Level Indicator Control (Closed When Oil Level is Low)
2	BLK	EE08A	Ground to E-74

On the Lower Left Side of the Engine, Near the Center, In the Oil Pan



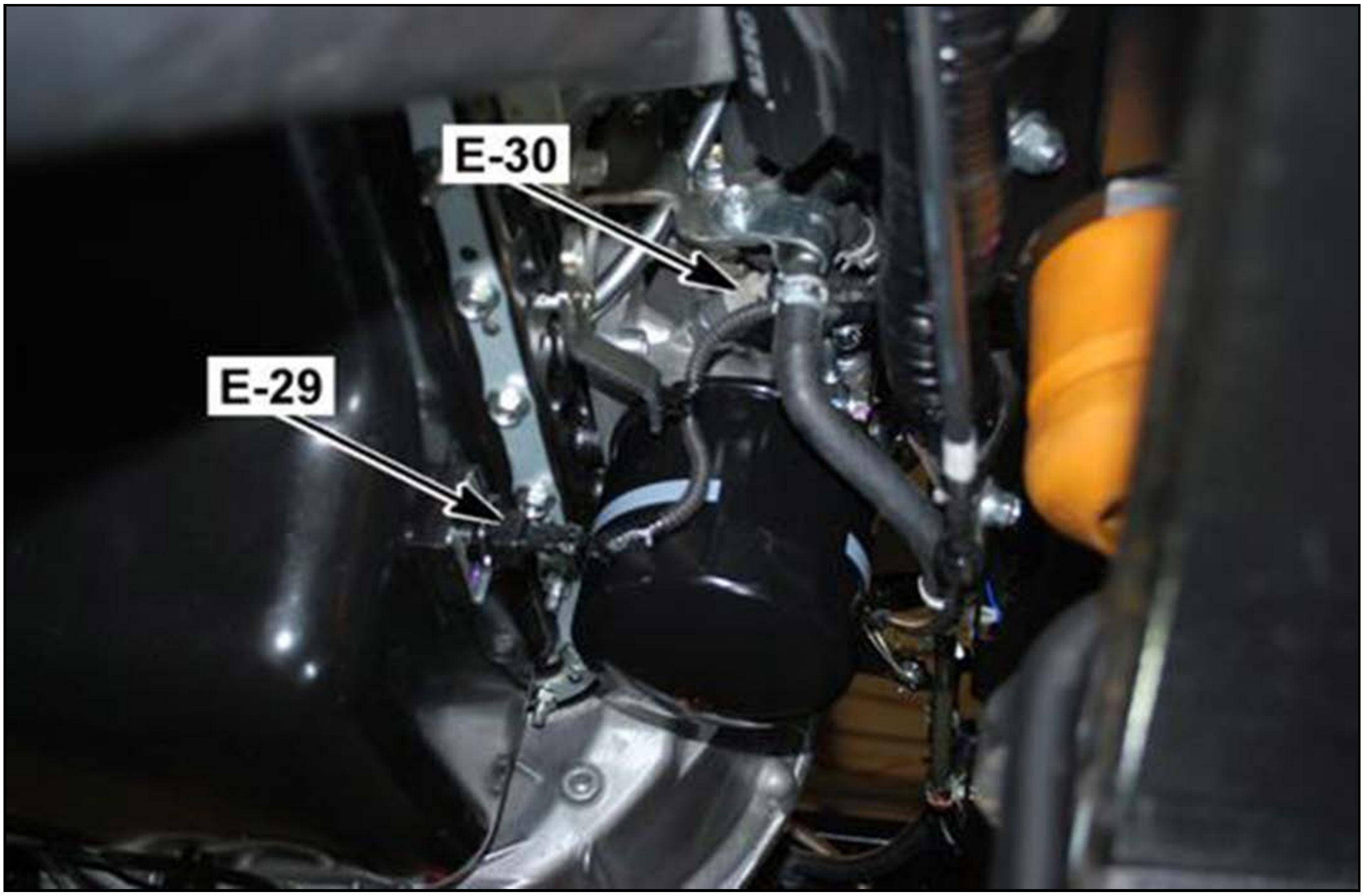
E-30 Engine Oil Pressure Switch



4891446

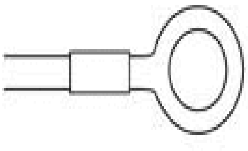
Connector Part Information	- 7283-1114-40 - 1-Way F (GRY)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU/YEL	MA02	Engine Control Oil Pressure Indicator (Closed with Low Oil Pressure)

On the Lower Left Side of the Engine, Above the Oil Filter



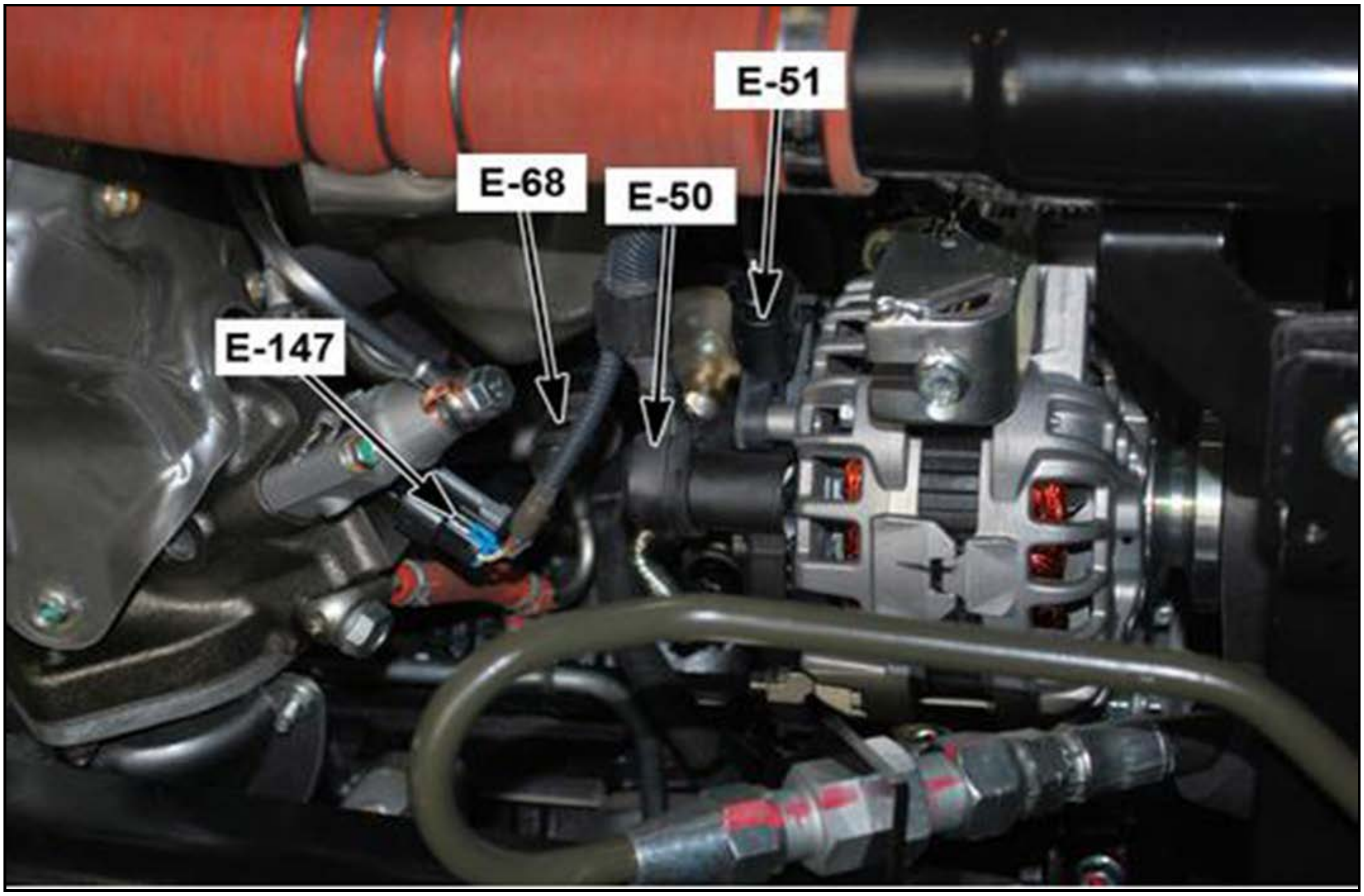
4891440

E-50 Generator



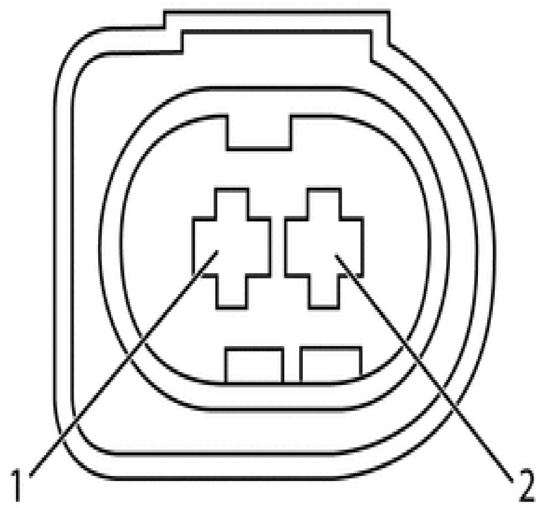
Connector Part Information		- 11300-5108 - 1-Way Eyelet	
Pin	Wire Color	Circuit Number	Function
—	WHT	PA13	Battery Voltage from Fusible Link
—	WHT	PA53	Battery Voltage from Fusible Link

On the Right Side of the Engine, on the Back of the Generator



4891452

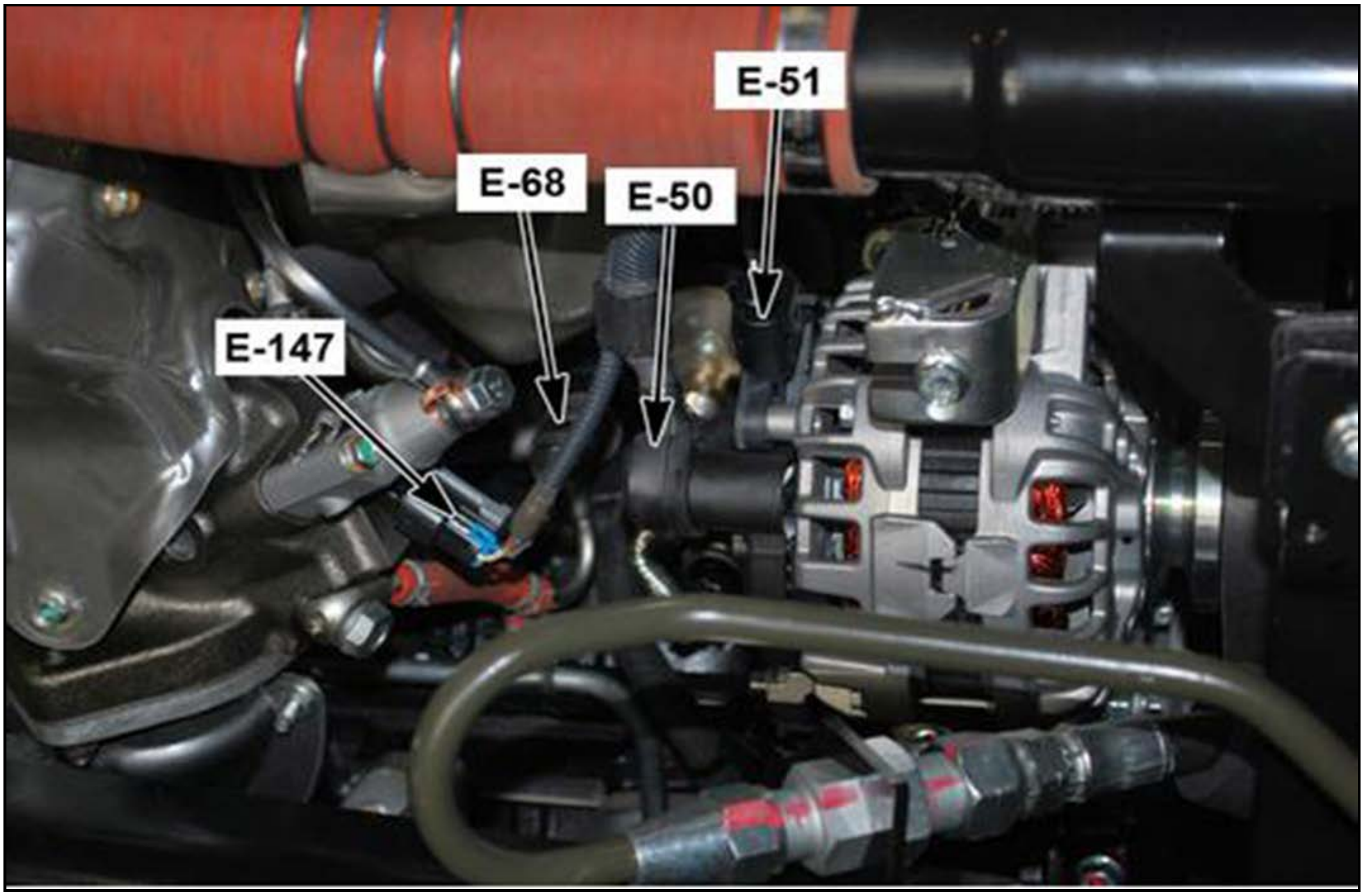
E-51 Generator



4891454

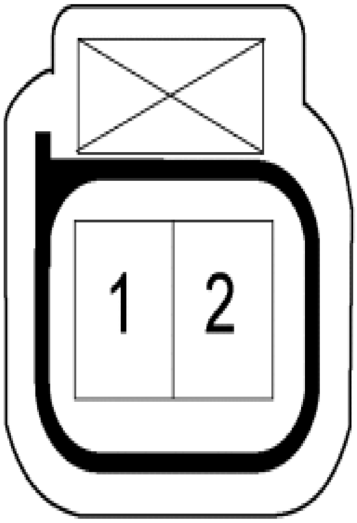
Connector Part Information		- 1-967412-2 AMP - 2-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	—	—	Not Used
2	WHT/BLU	PA21	Charge Indicator (Red) Control (L)

On the Right Side of the Engine, on the Back of the Generator



4891452

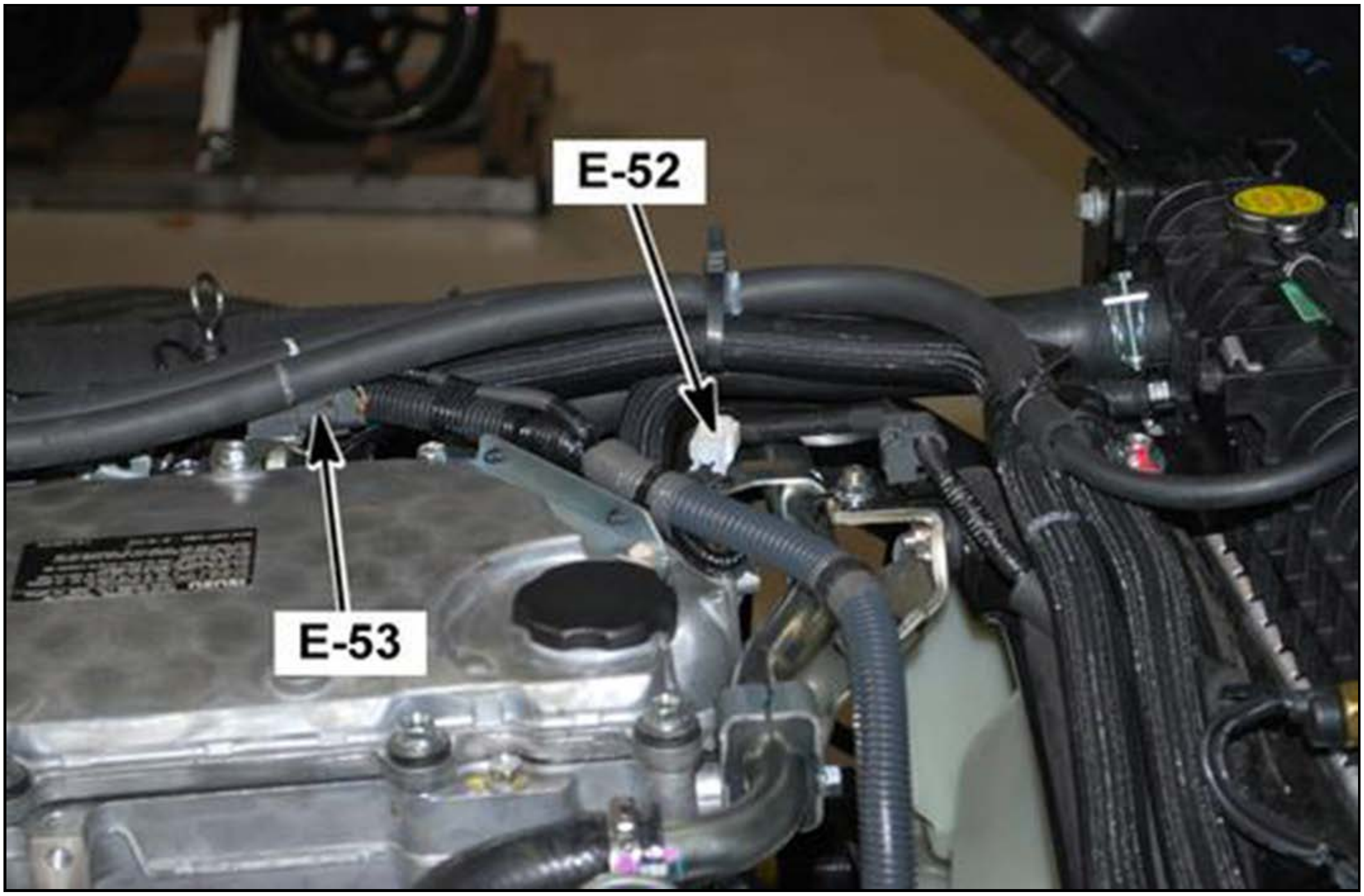
E-52 Low Coolant Level Sensor



4891455

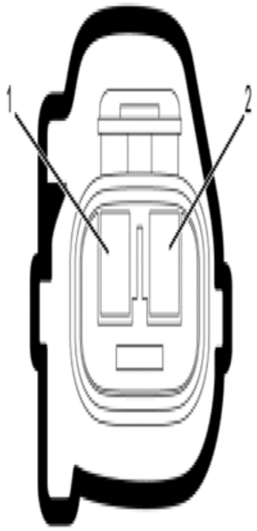
Connector Part Information		- 897364-4840 - 2-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	IZ133	Ground to E-74
2	GRY/BLK	IC88	Low Coolant Level Signal

Top Front of Engine, Next to the Valve Cover



4891456

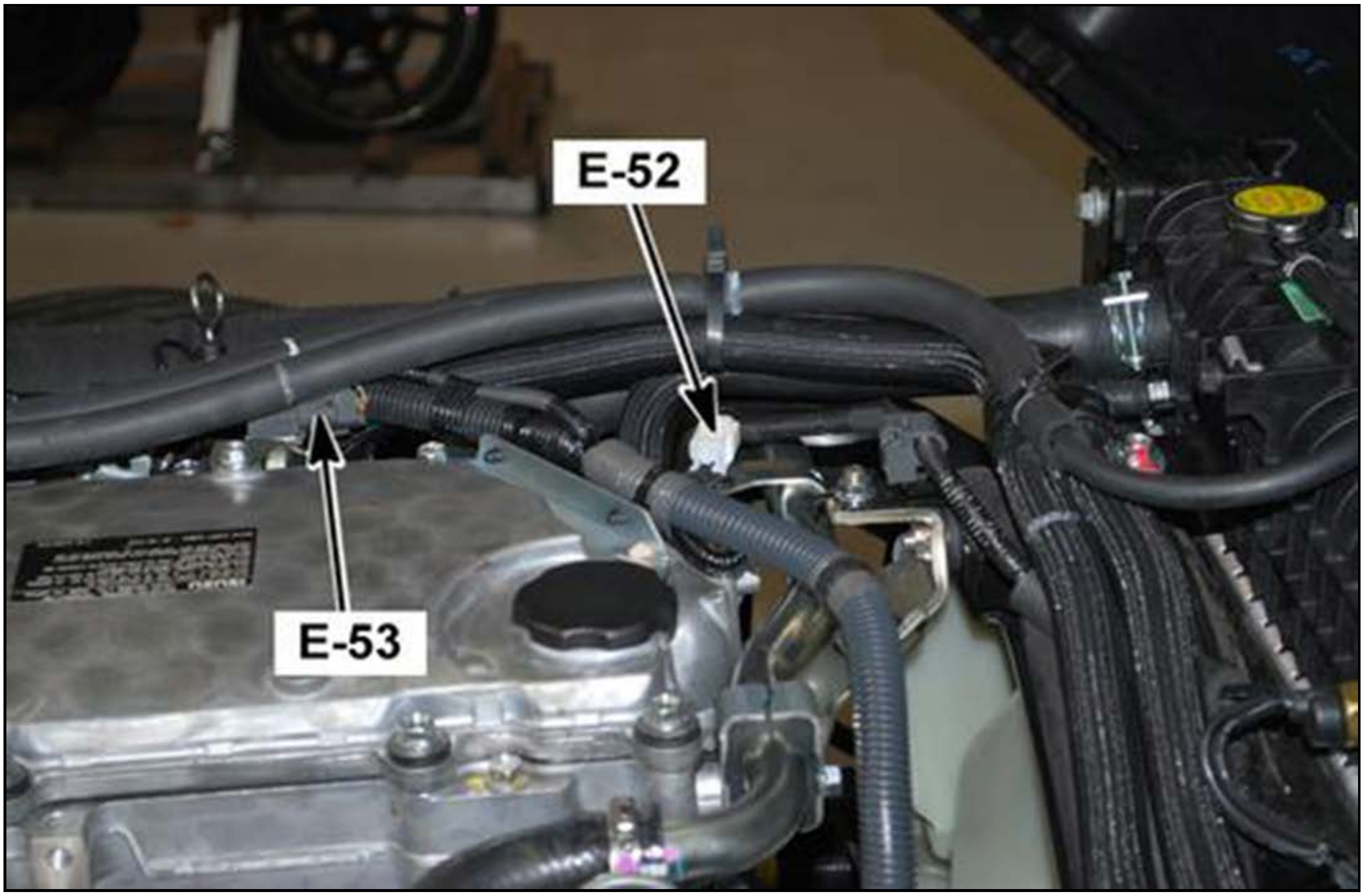
E-53 Intake Air Temperature (IAT) Sensor 2



4891459

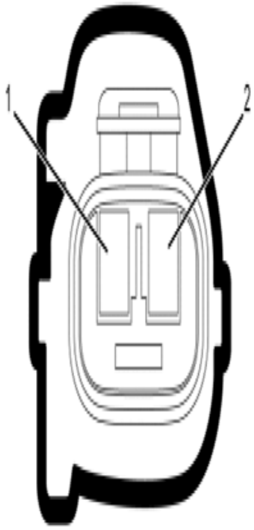
Connector Part Information		• 7283-7020-10 • 2-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/BLU	IC161	Sensor Signal
2	BLU/YEL	IC162	Sensor Low Reference

Top Front of Engine, Next to the Valve Cover



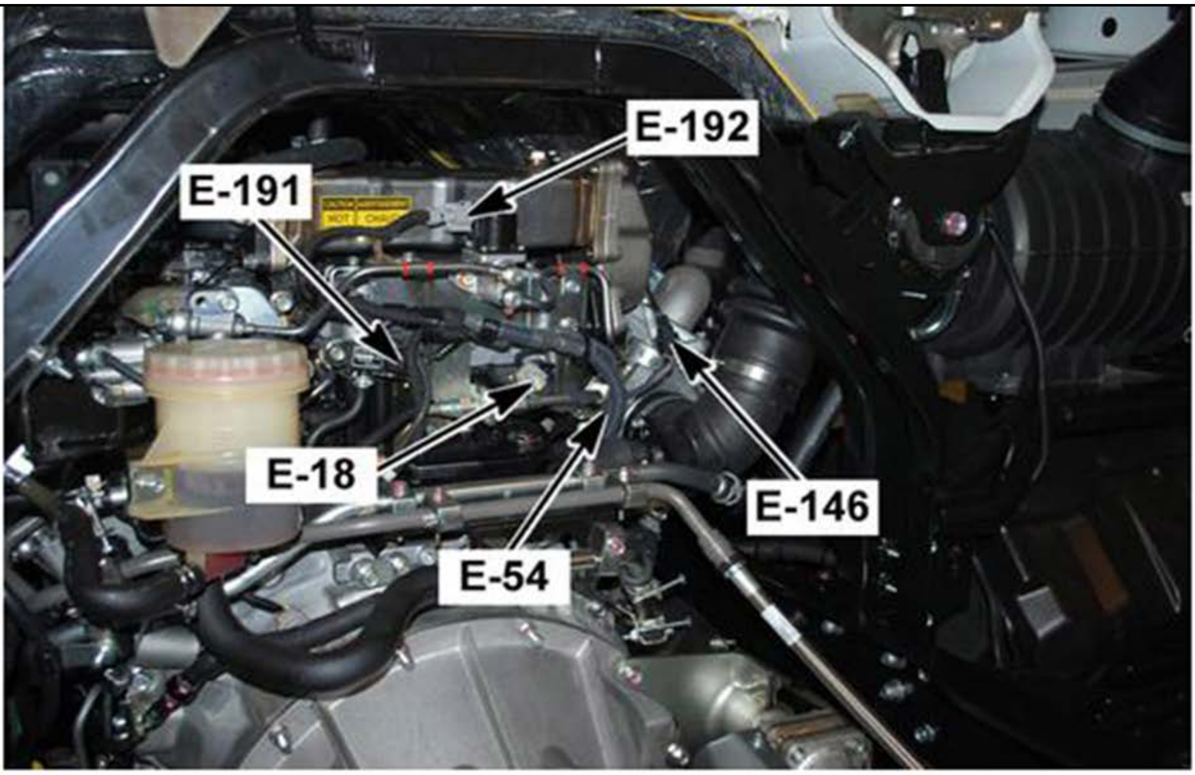
4891456

E-54 EGR Exhaust Gas Temperature (In) Sensor 1



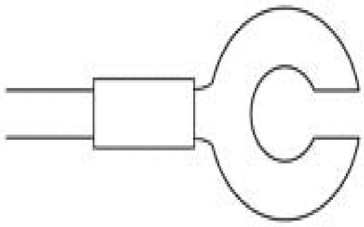
Connector Part Information		- 7383-7020-10 - 2-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/GRN	IC156	Sensor Signal
2	BLU/WHT	IC157	Sensor Low Reference

Back of the Engine, Lower Right Corner


E-192
E-191
E-18
E-146
E-54

4891407

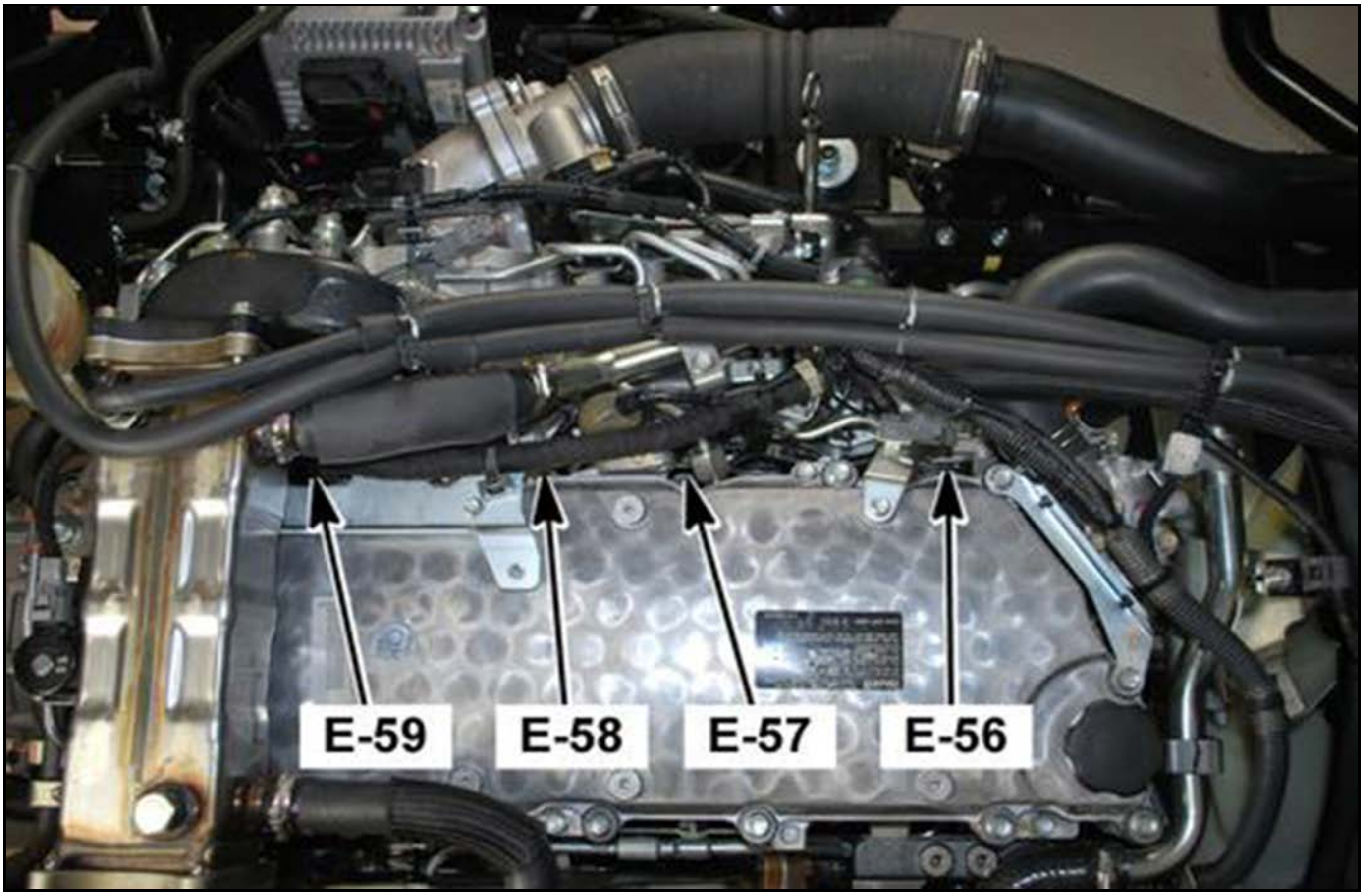
E-56 Glow Plug 1



4891461

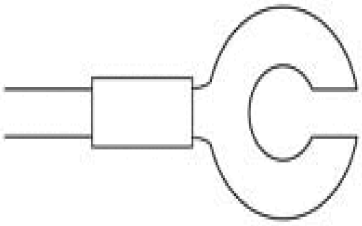
Connector Part Information	• 909550-1240 • 1-Way Open Eyelet		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED	HB11	Glow Plug #1 Control

On the Upper Left Side of the Engine, In the Cylinder Head, At Cylinder 1



4891664

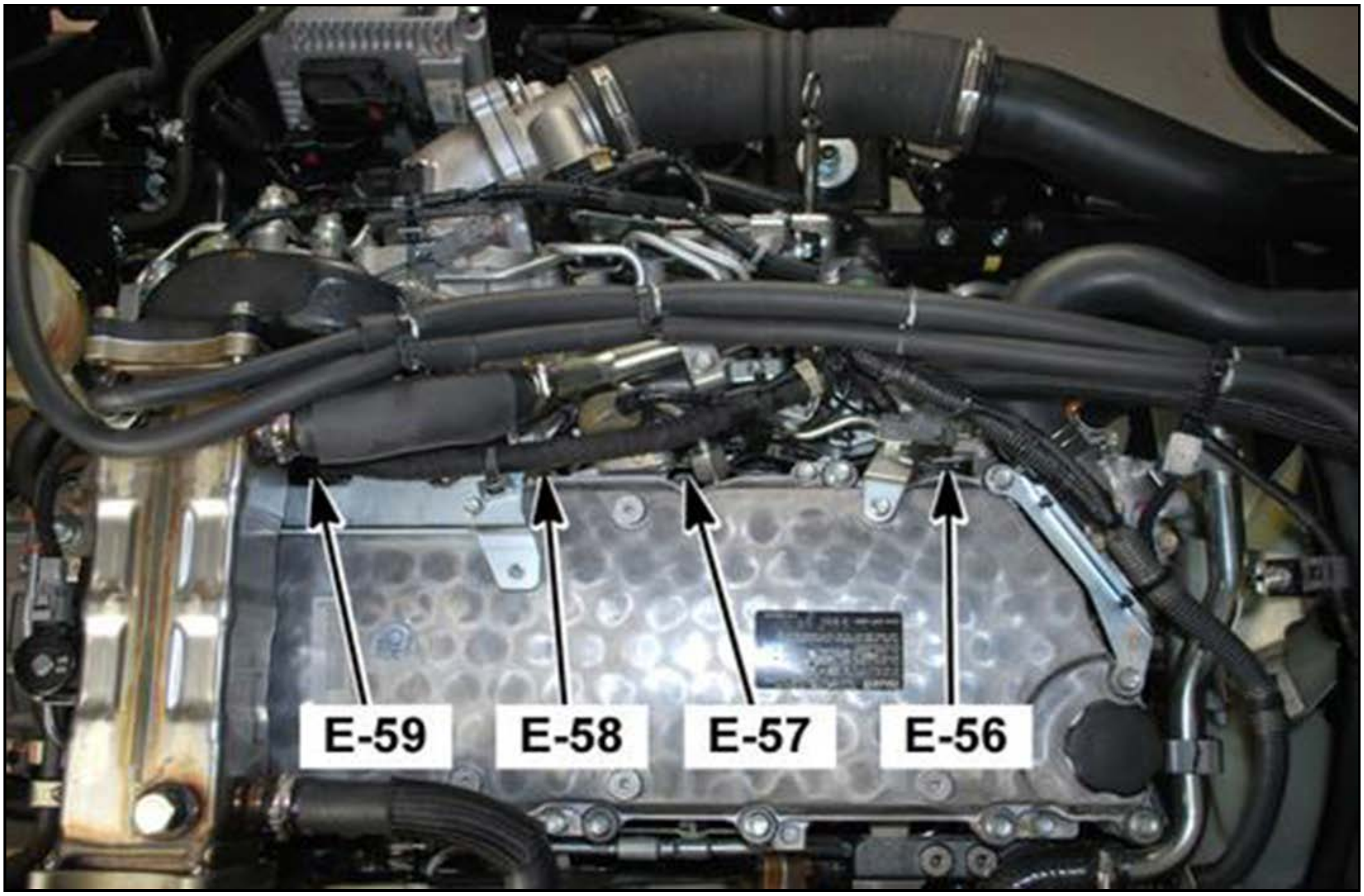
E-57 Glow Plug 2



4891461

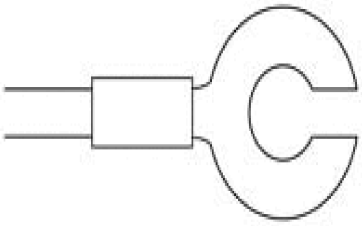
Connector Part Information		- 909550-1240 - 1-Way Open Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN	HB12	Glow Plug #2 Control

On the Upper Left Side of the Engine, In the Cylinder Head, At Cylinder 2



4891664

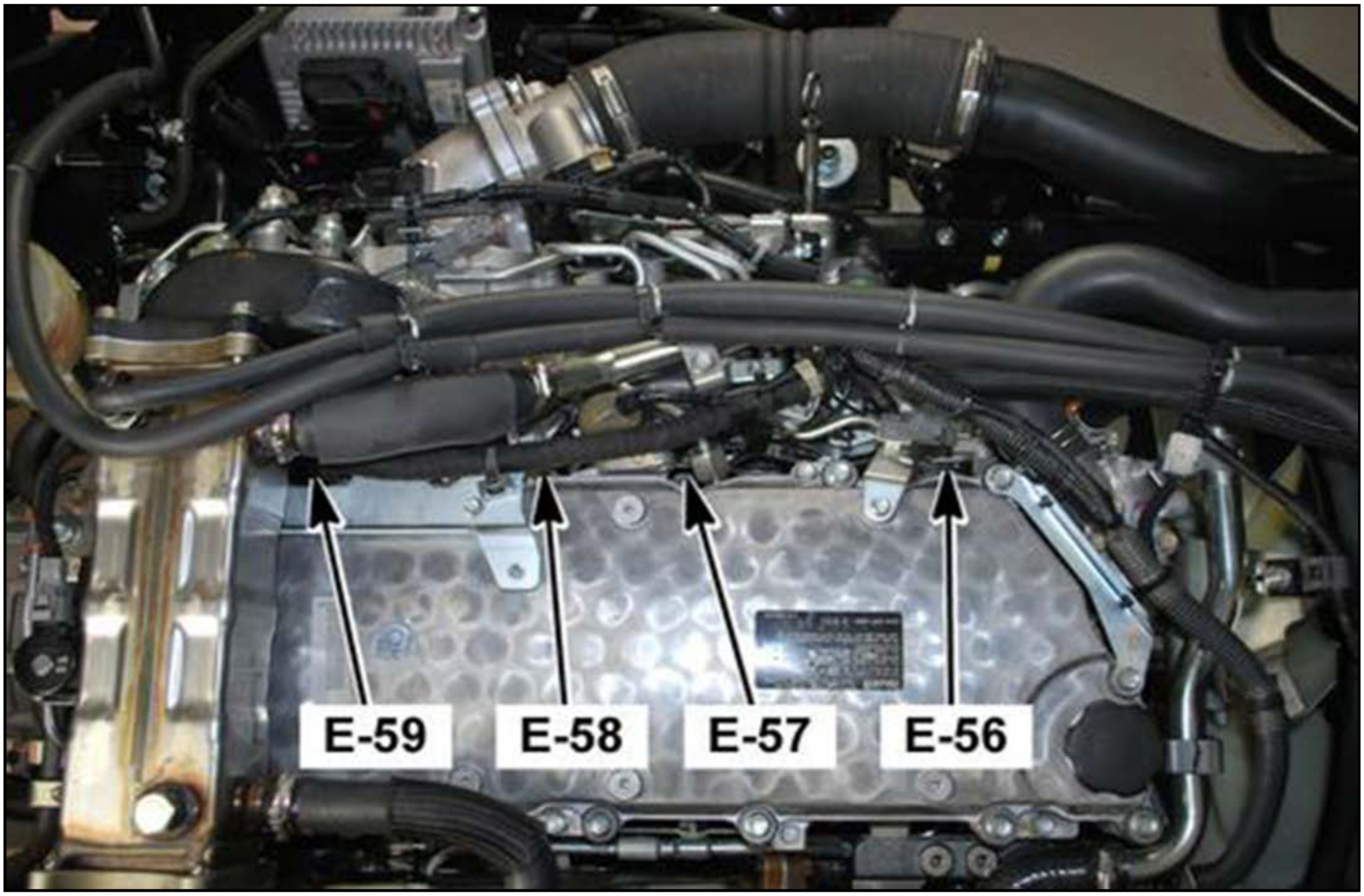
E-58 Glow Plug 3



4891461

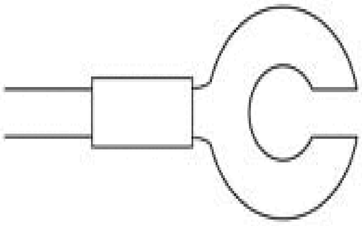
Connector Part Information		• 909550-1240 • 1-Way Open Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	PNK	HB13	Glow Plug #3 Control

On the Upper Left Side of the Engine, In the Cylinder Head, At Cylinder 3



4891664

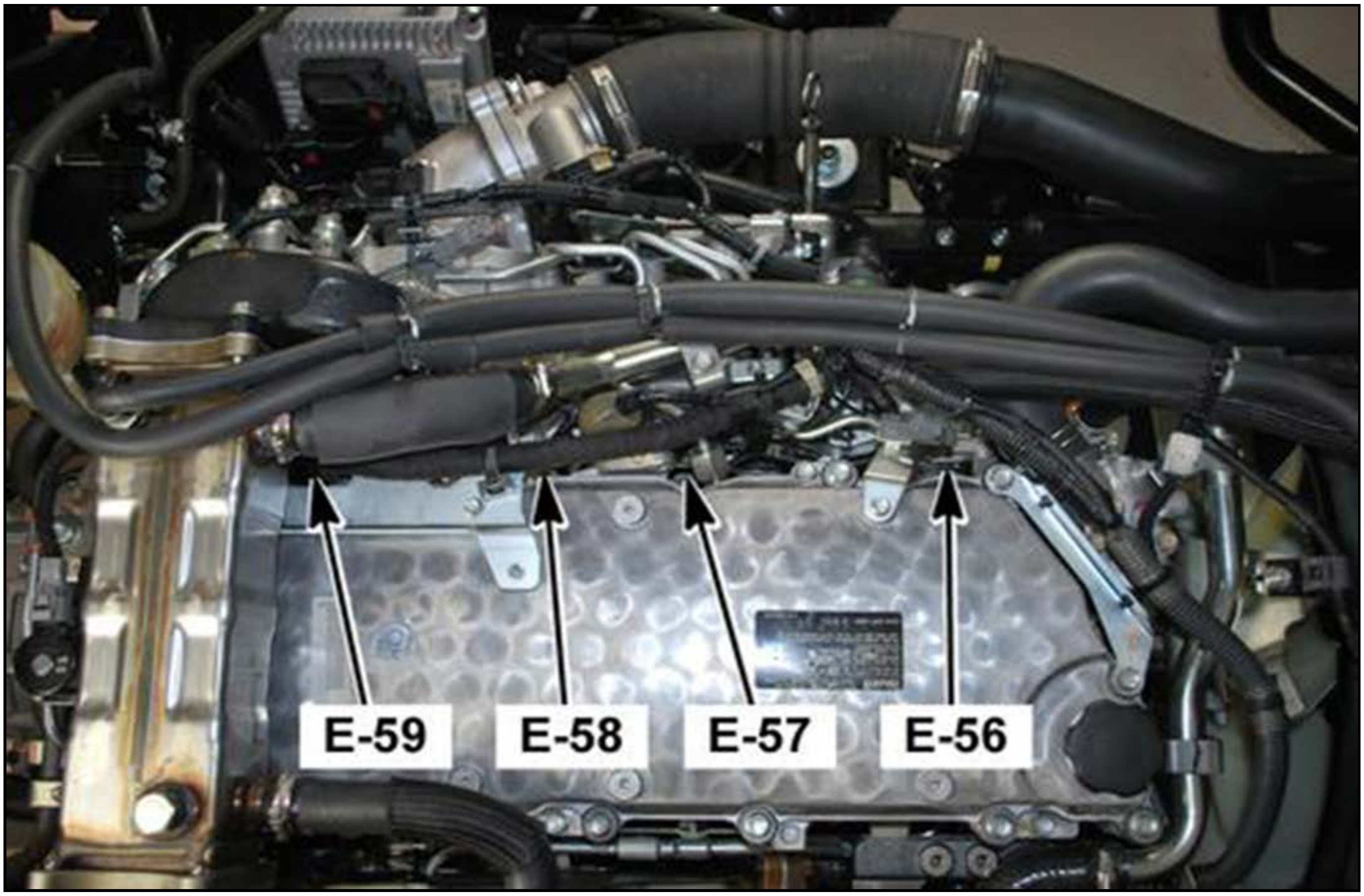
E-59 Glow Plug 4



4891461

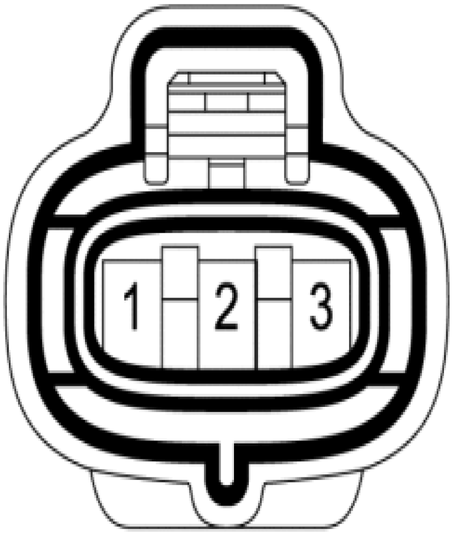
Connector Part Information		• 909550-1240 • 1-Way Open Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU	HB14	Glow Plug #4 Control

On the Upper Left Side of the Engine, In the Cylinder Head, At Cylinder 4



4891664

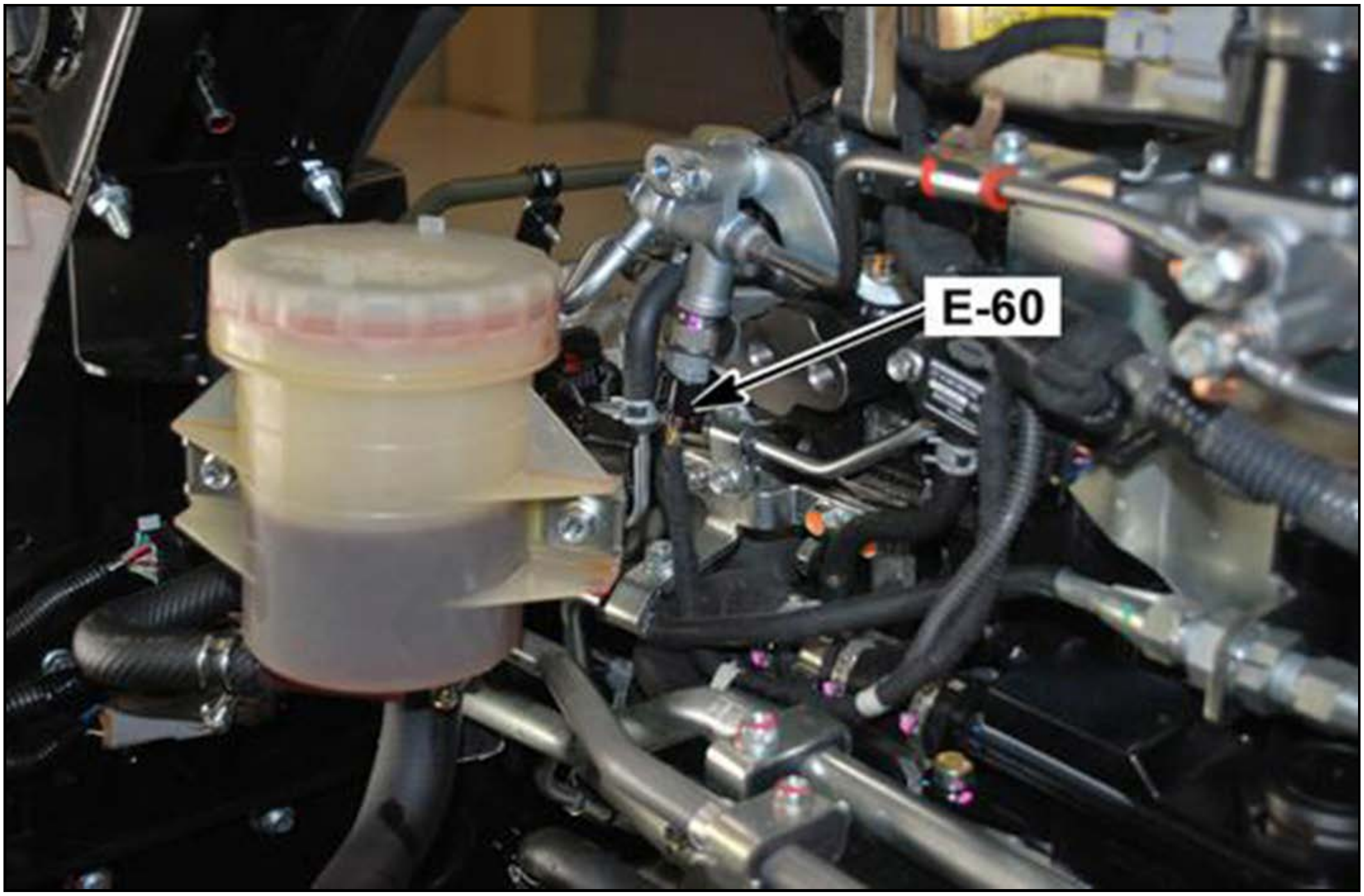
E-60 Diesel Particulate Filter Fuel Pressure Sensor



4891678

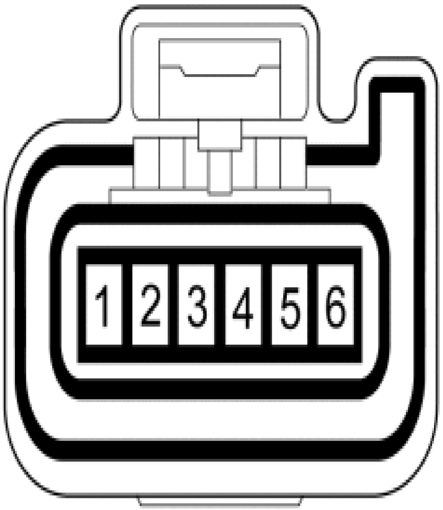
Connector Part Information		• 6189-0099 • 3-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	YEL/BLK	IC136	Sensor Low Reference
2	WHT/ORN	IC135	Sensor Signal
3	LT GRN	IC134	Sensor 5V Reference

Back of the Engine, Left Upper Corner



4891682

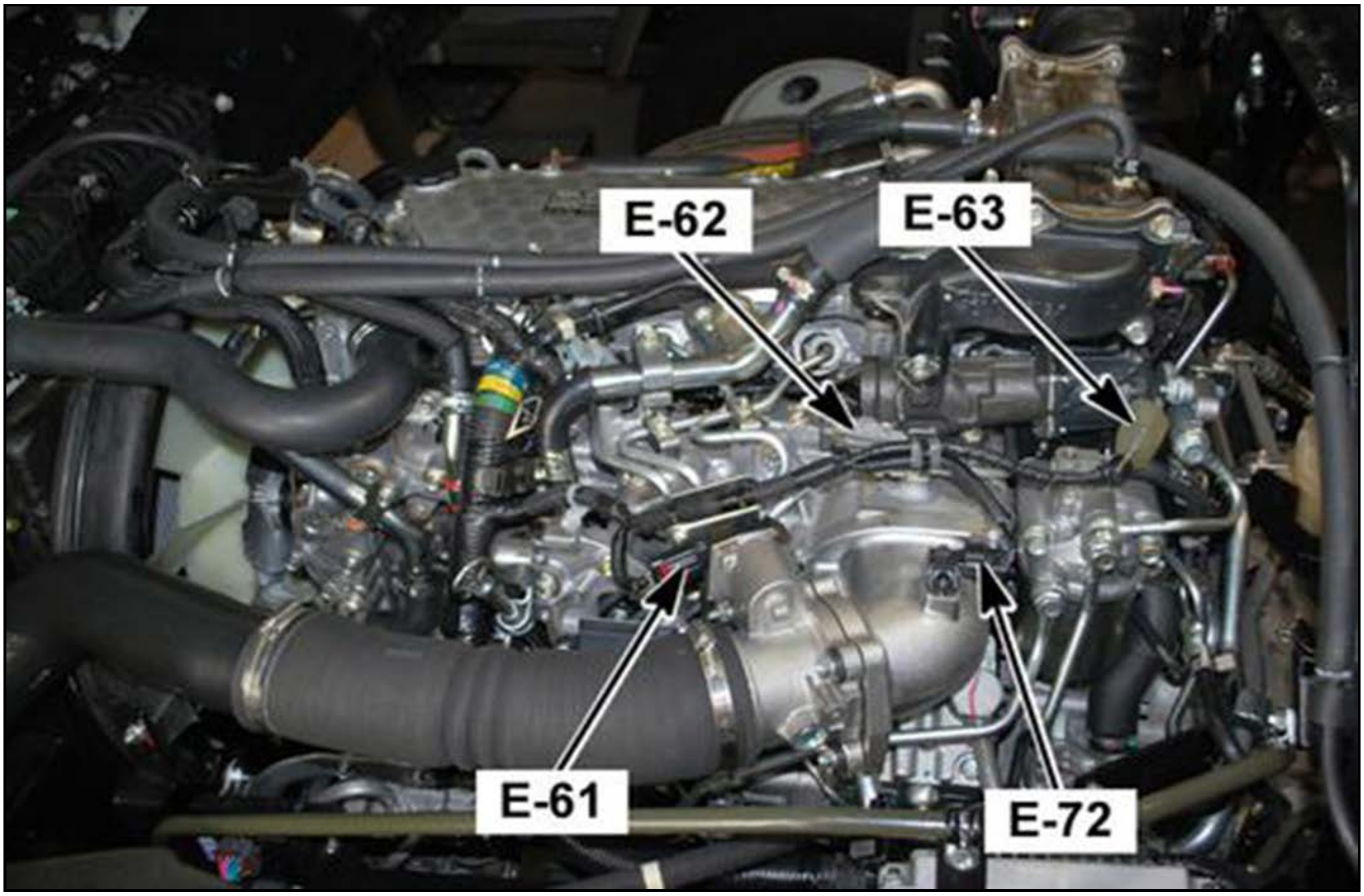
E-61 Intake Air Flow (IAF) Valve



4891737

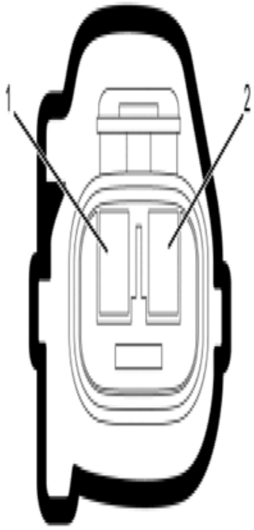
Connector Part Information		- 1-1438153-3 - 6-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	—	—	Not Used
2	YEL/RED	IC120	Position Sensor 5V Reference
3	BLU/BLK	IC122	Position Sensor Low Reference
4	VIO/WHT	IC121	Position Sensor Signal
5	GRN/WHT	IC109	Solenoid Control Low Side (PWM)
6	BLK/GRN	IC108	Solenoid Drive Voltage

Left Side of the Engine, On the Side of the Throttle Body



4891740

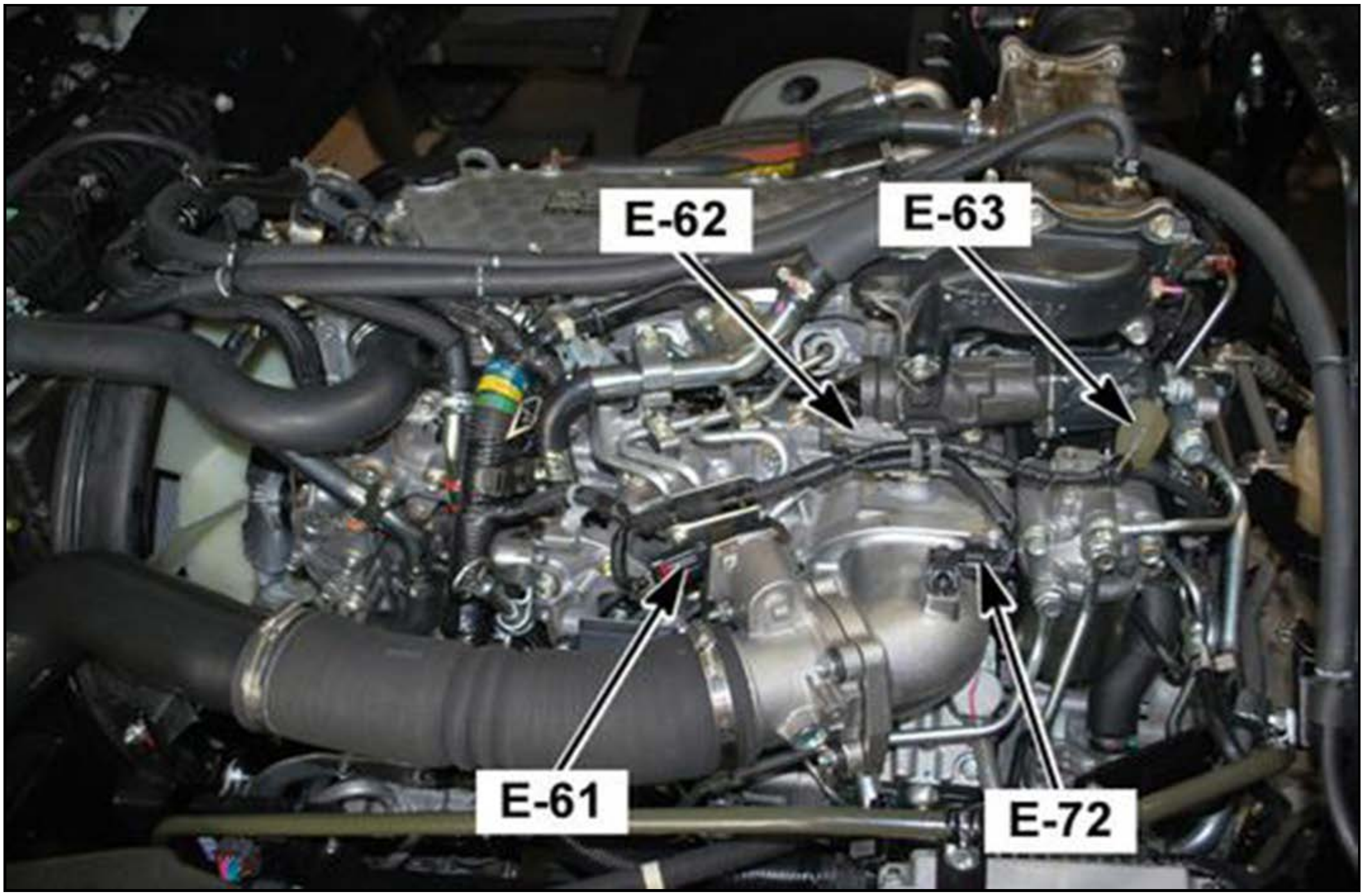
E-62 EGR Gas Temperature (Out) Sensor 2



4891459

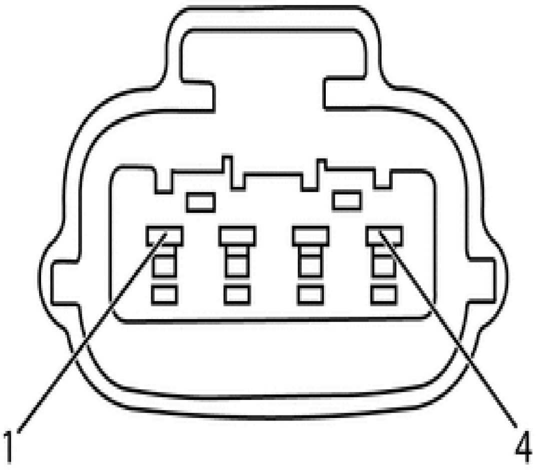
Connector Part Information		- 7283-7020-40 - 2-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU/RED	IC160	Sensor Low Reference
2	RED/YEL	IC159	Sensor Signal

Left Upper Rear Corner of the Engine



4891740

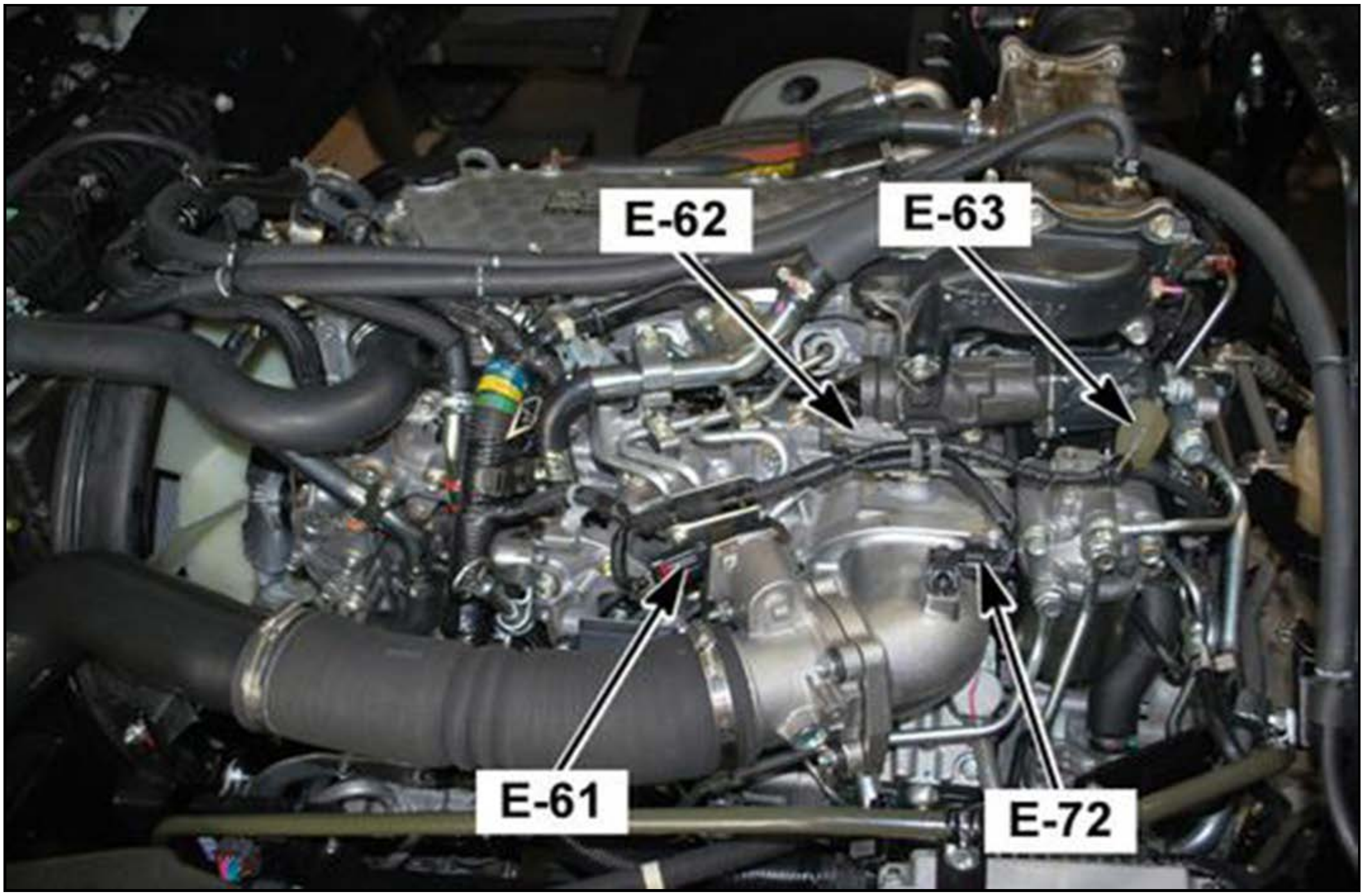
E-63 EGR Valve



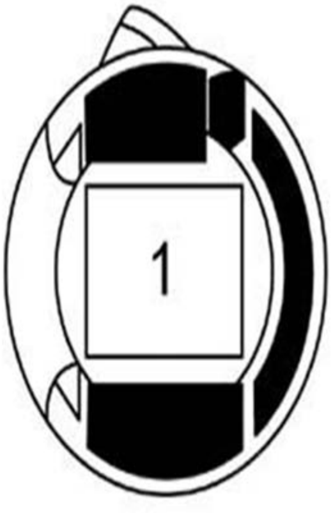
4891746

Connector Part Information		- 6195-0030 - 4-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN	IC228	Ignition Voltage from Fuse F-35
2	BLK	IZ236	Ground to E-74
3	GRN	TF64	ISO 15765 CAN 2 Low
4	GRN/WHT	TF63	ISO 15765 CAN 2 High

Left Upper Rear Corner of the Engine


E-62
E-63
E-61
E-72
4891740

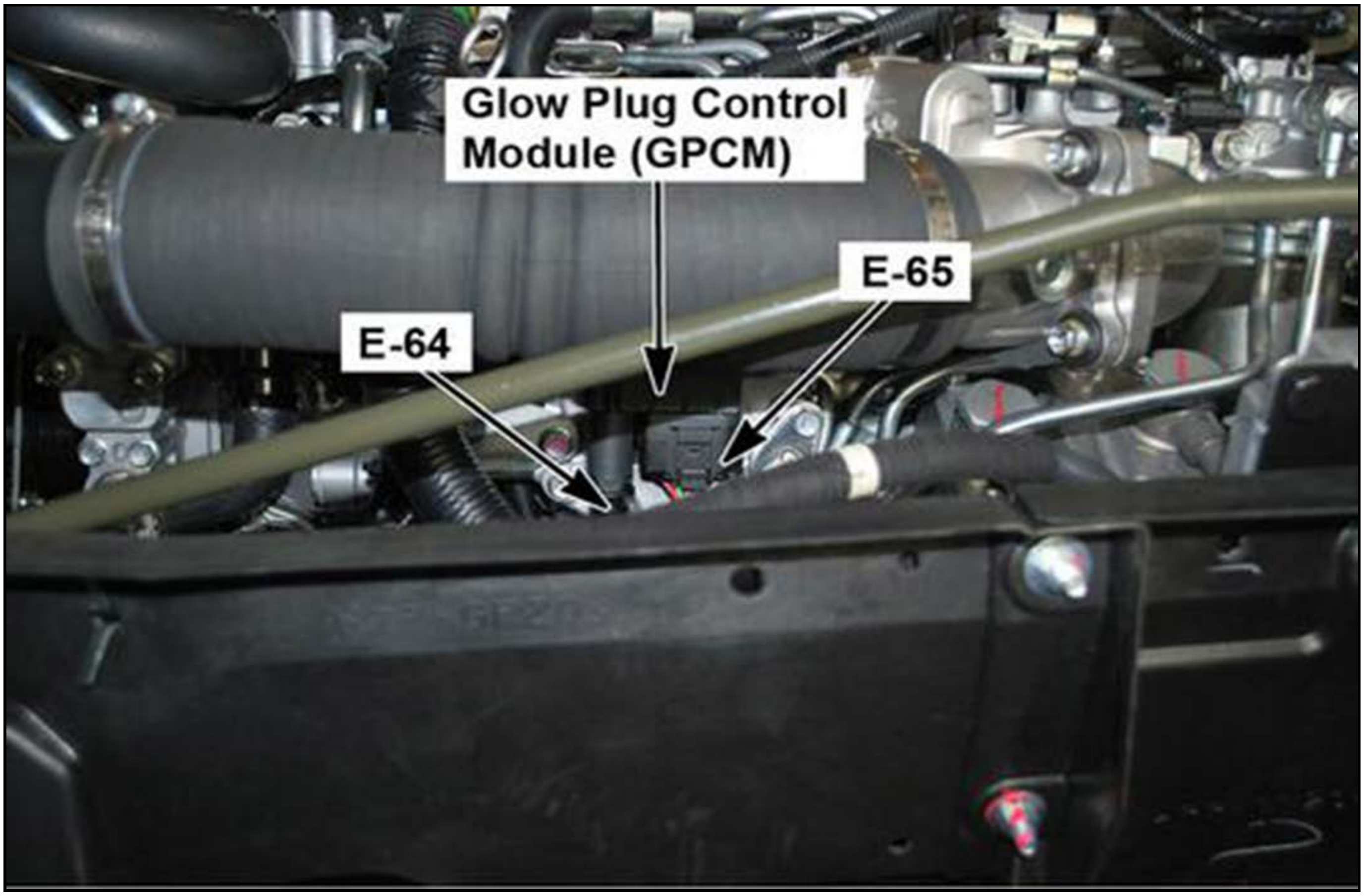
E-64 Glow Plug Control Module



4891747

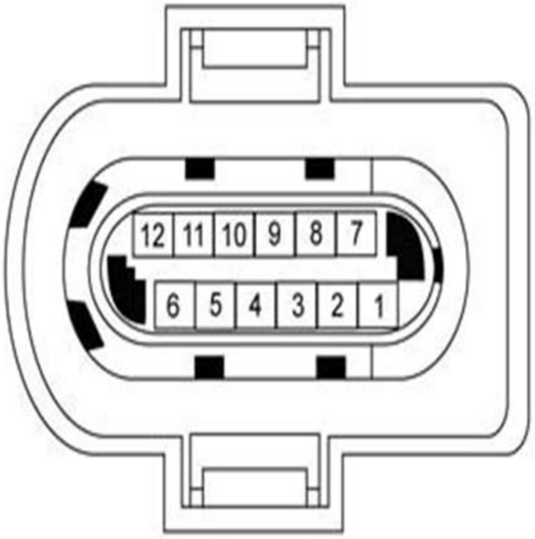
Connector Part Information	- 09-4475-51 - 1-Way F (BLK)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT/BLK	HB01	Battery Voltage from Fuse FL-4 Fuse/Relay Center

Left Side of the Engine, in Front of the Throttle Valve


Glow Plug Control
Module (GPCM)
E-65
E-64

4891751

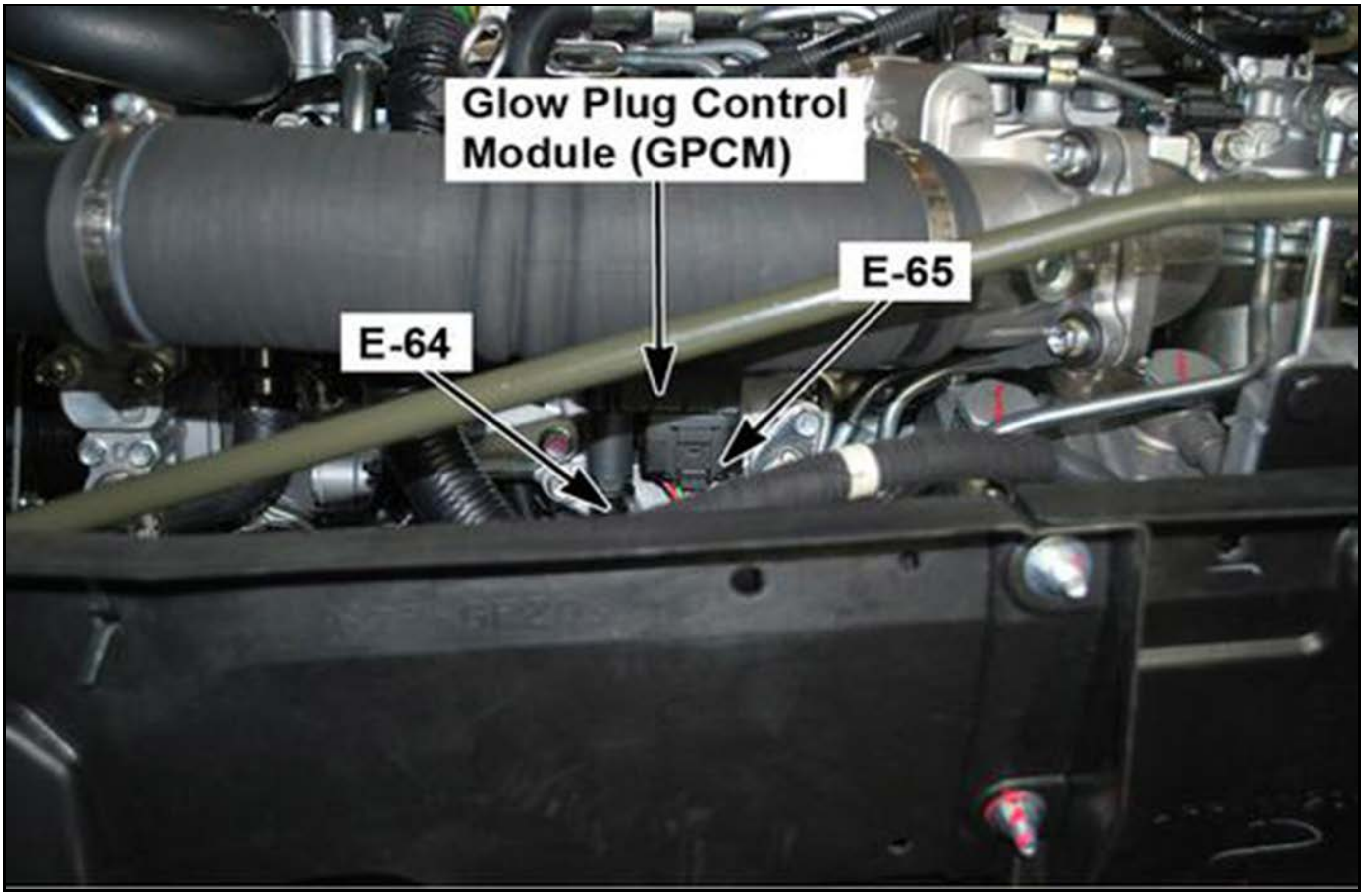
E-65 Glow Plug Control Module



4891756

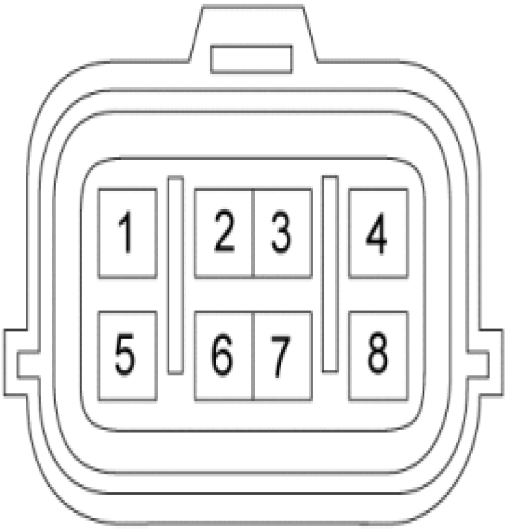
Connector Part Information		- 09-4474-01 - 12-Way F (BLK)	
Pin	Wire Color	Circuit Number	Function
1	RED	HB11	Cylinder #1 Glow Plug
2	GRN	HB12	Cylinder #2 Glow Plug
3	PNK	HB13	Cylinder #3 Glow Plug
4	BLU	HB14	Cylinder #4 Glow Plug
5	GRN/BLK	IC02	Glow Plug Control Module Voltage from X-18 ECM Main Relay
6	BLU	TF40	CAN Low
7–10	—	—	Not Used
11	BLK	HY01A	Ground to E-74
12	BLU/WHT	TF39	CAN High

Left Side of the Engine, in Front of the Throttle Valve


Glow Plug Control Module (GPCM)
E-65
E-64

4891751

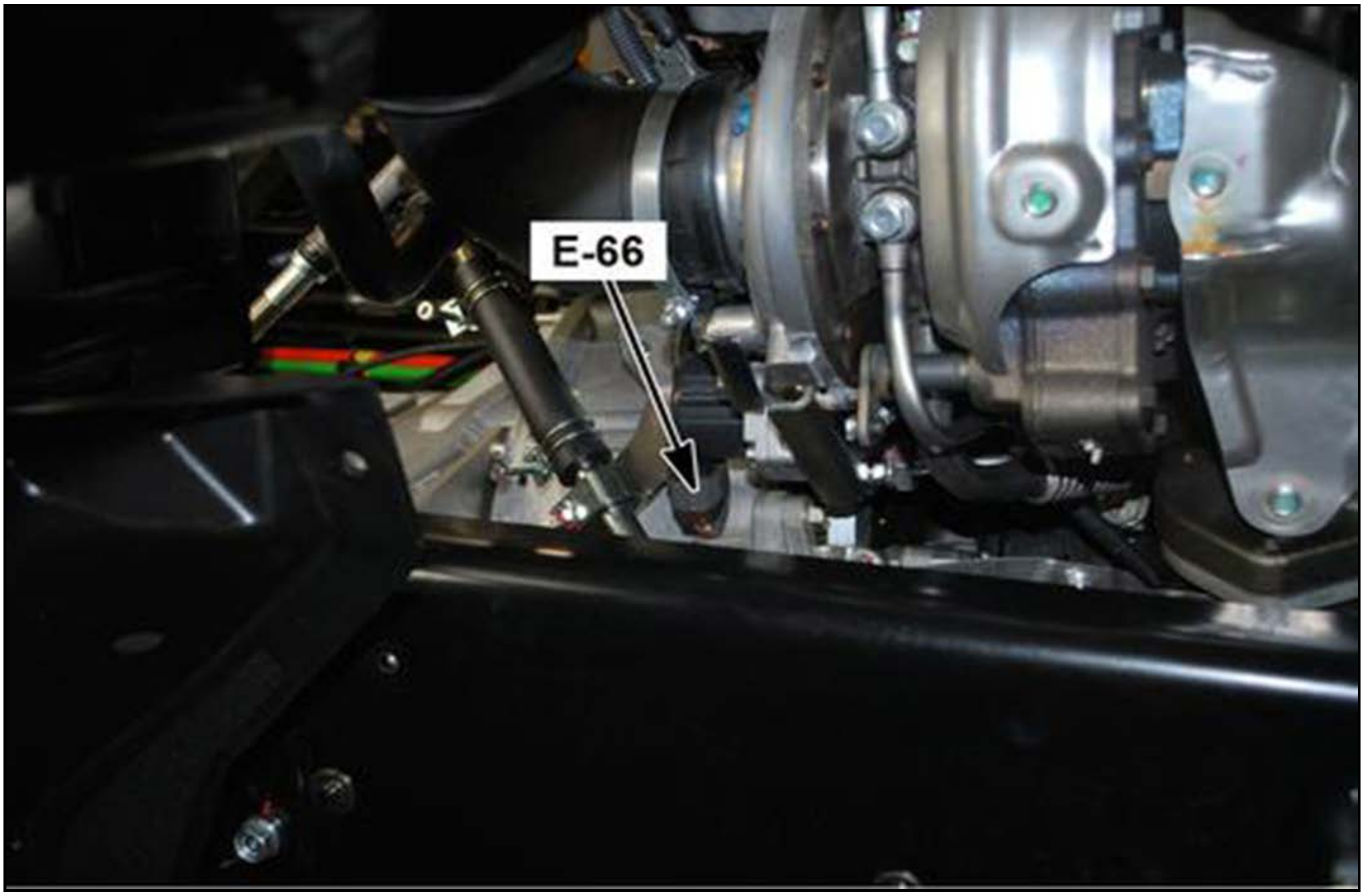
E-66 Variable Nozzle Turbocharger (VNT) Actuator/Sensor



4891758

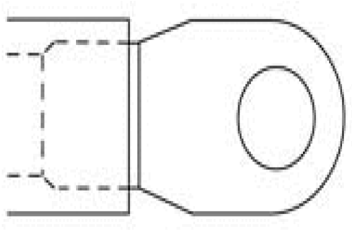
Connector Part Information		- 6195-0249 - 8-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BRN	IC202	Position Sensor Reference Voltage
2	BRN	IC197	Position Sensor Signal 3
3	BLU/WHT	IC195	Position Sensor Signal 2
4	BLU	IC193	Position Sensor Signal 1
5	RED	IC192	Position Sensor Low Reference
6	YEL	IC201	VNT Motor 3
7	LT GRN	IC200	VNT Motor 2
8	VIO	IC199	VNT Motor 1

On the Right Side of the Engine, Under the Turbocharger



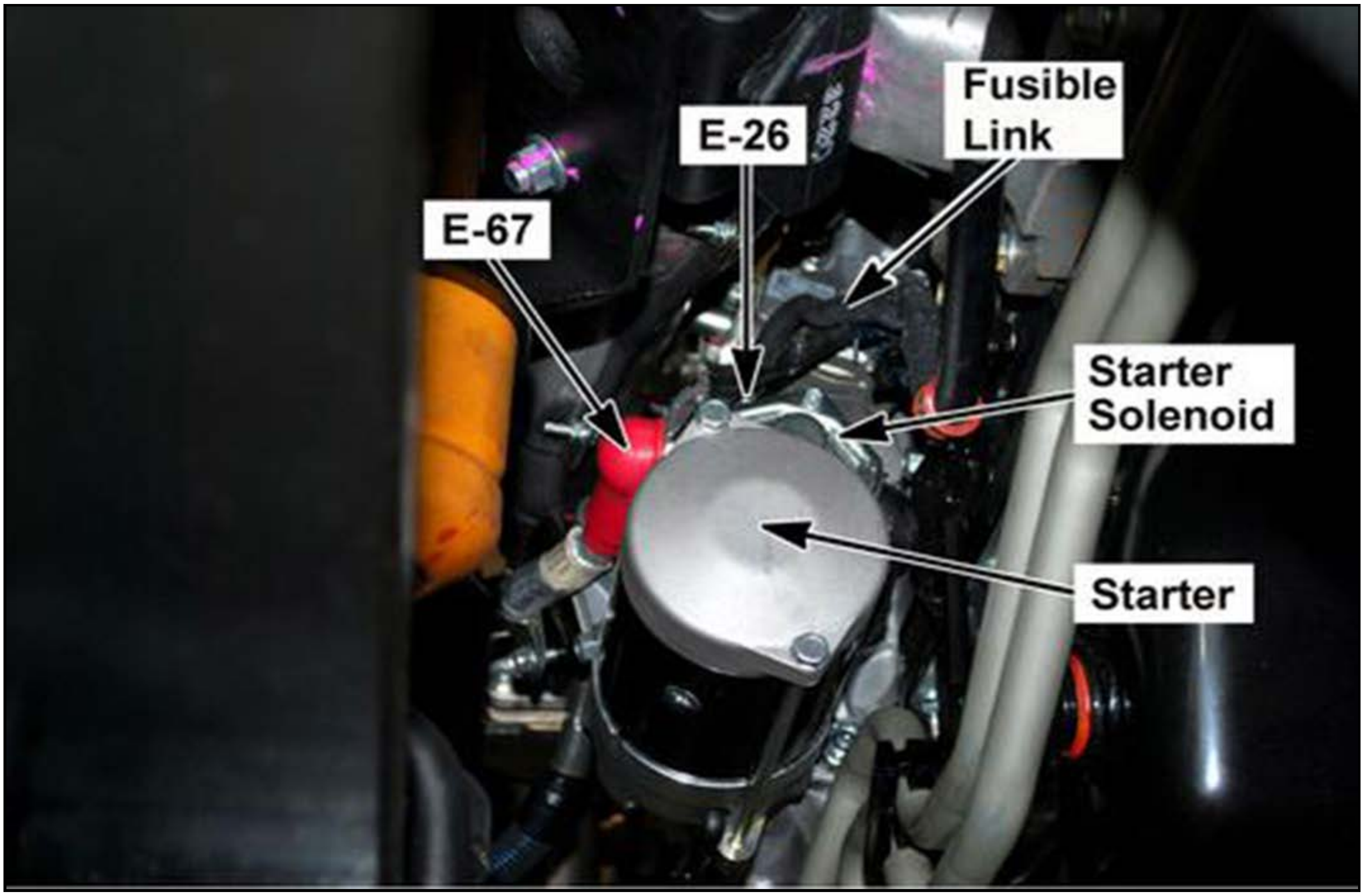
4891763

E-67 Starter



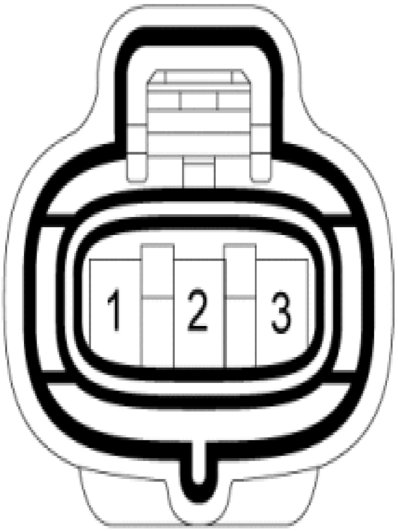
Connector Part Information		• 90955-11300 • 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLU	PA11	Positive Battery Voltage to Fusible Link
—	BLU	PA10	Positive Battery Voltage to Fusible Link

Right Lower Side of the Engine


Fusible Link
E-26
E-67
Starter Solenoid
Starter

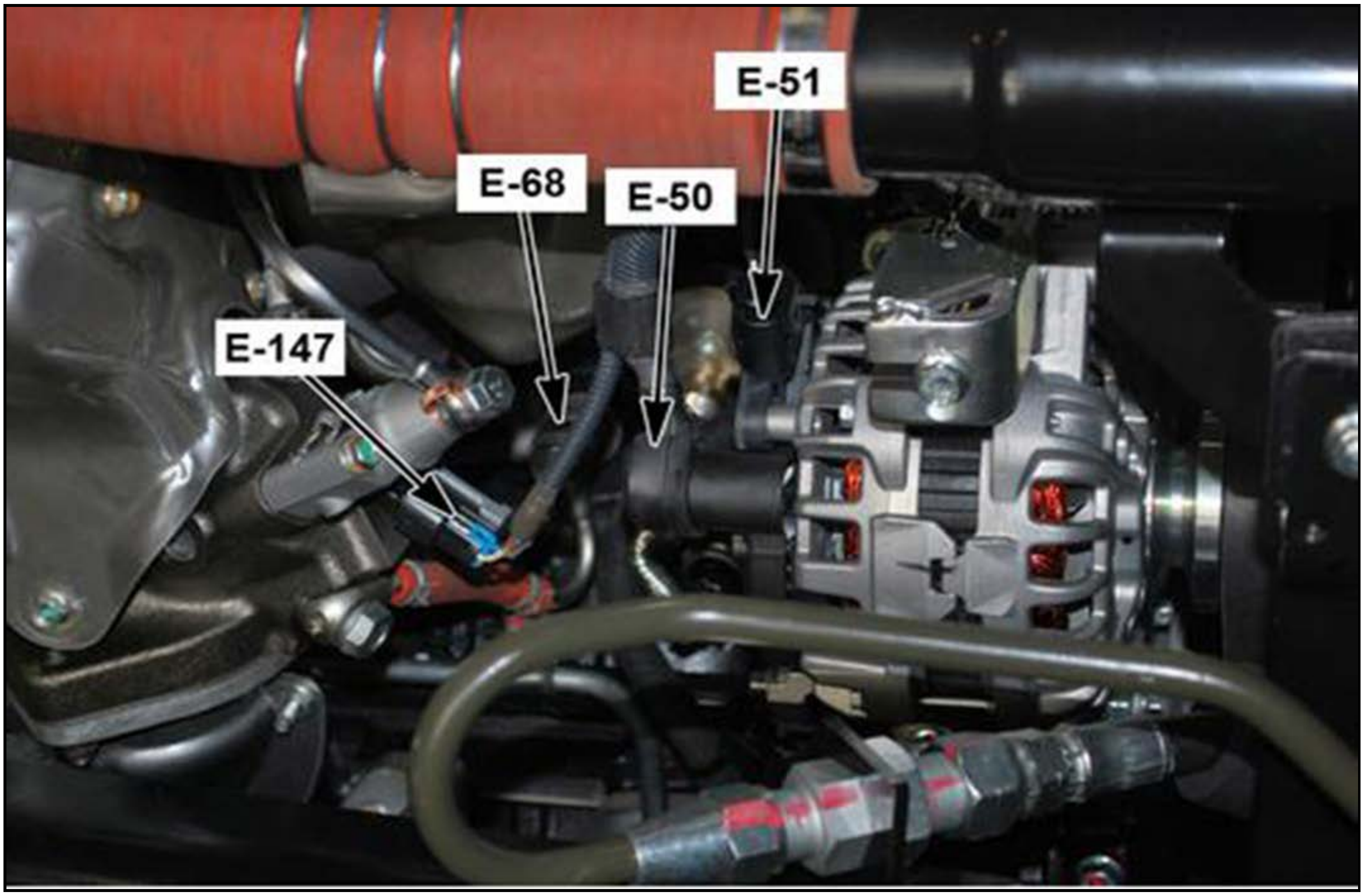
4891429

E-68 Engine Oil Pressure (EOP) Sensor



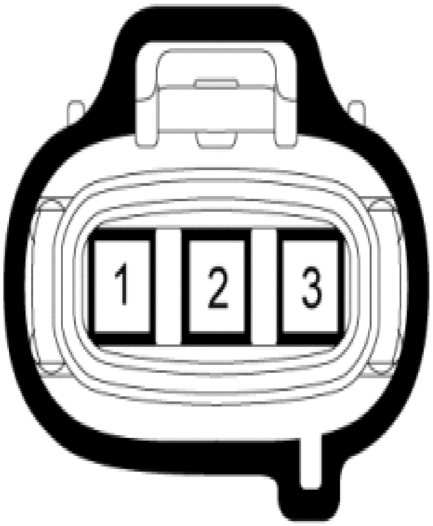
4891773

Connector Part Information		• 6189-0099 • 3-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	IC155	Sensor Low Reference
2	RED	IC154	Sensor Signal
3	WHT	IC153	Sensor 5V Reference


E-51
E-68
E-50
E-147

4891452

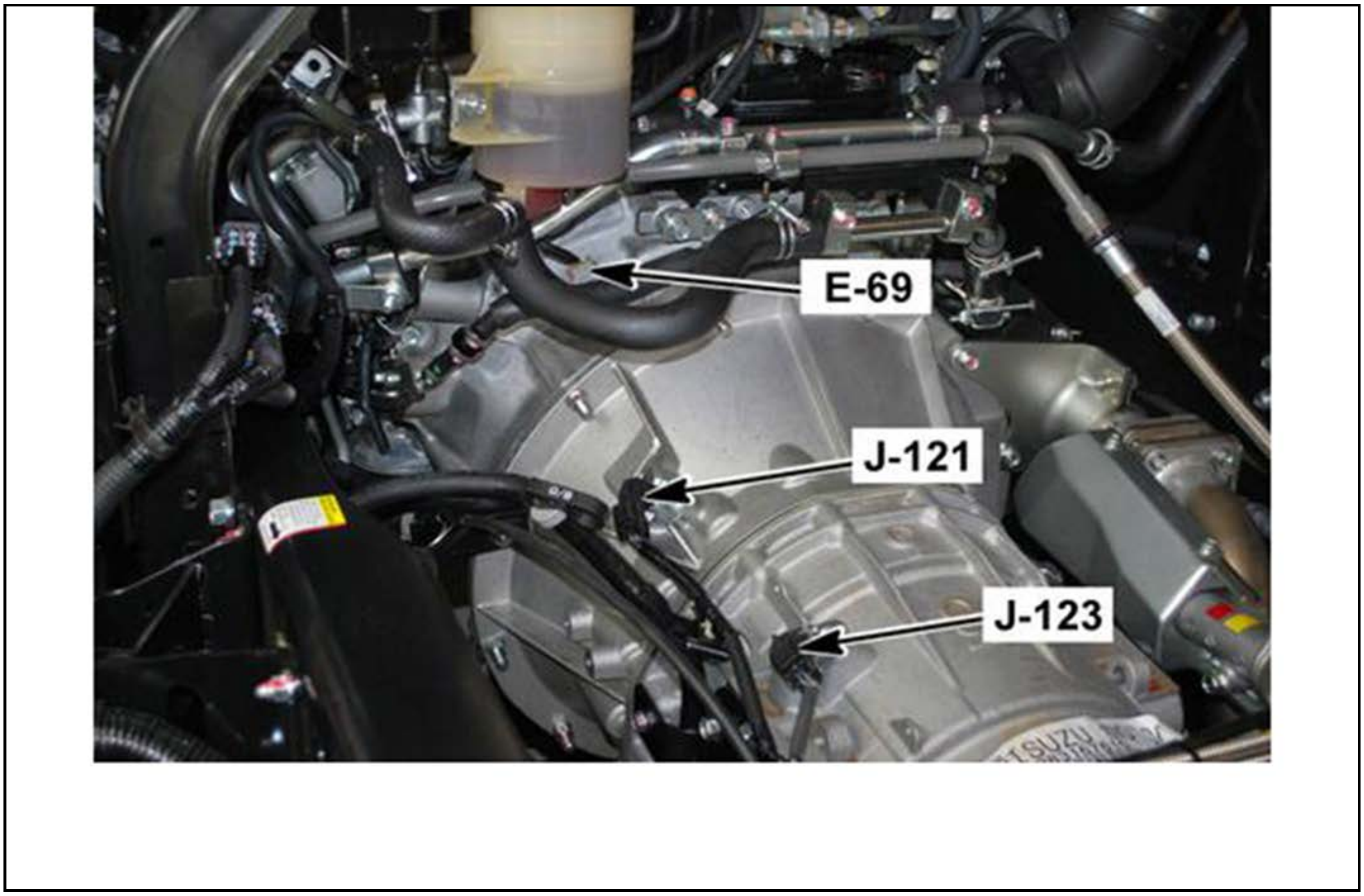
E-69 Crankshaft Position (CKP) Sensor



4891406

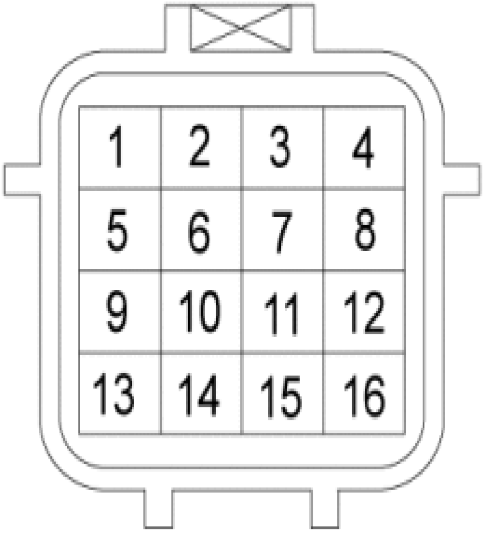
Connector Part Information		• 6248-5317 • 3-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT	IC148	Sensor Signal
2	BLK	IC147	Sensor Low Reference
3	RED	IC114	Sensor 5 Volt Reference 3

Left Rear of the Engine Block



4891776

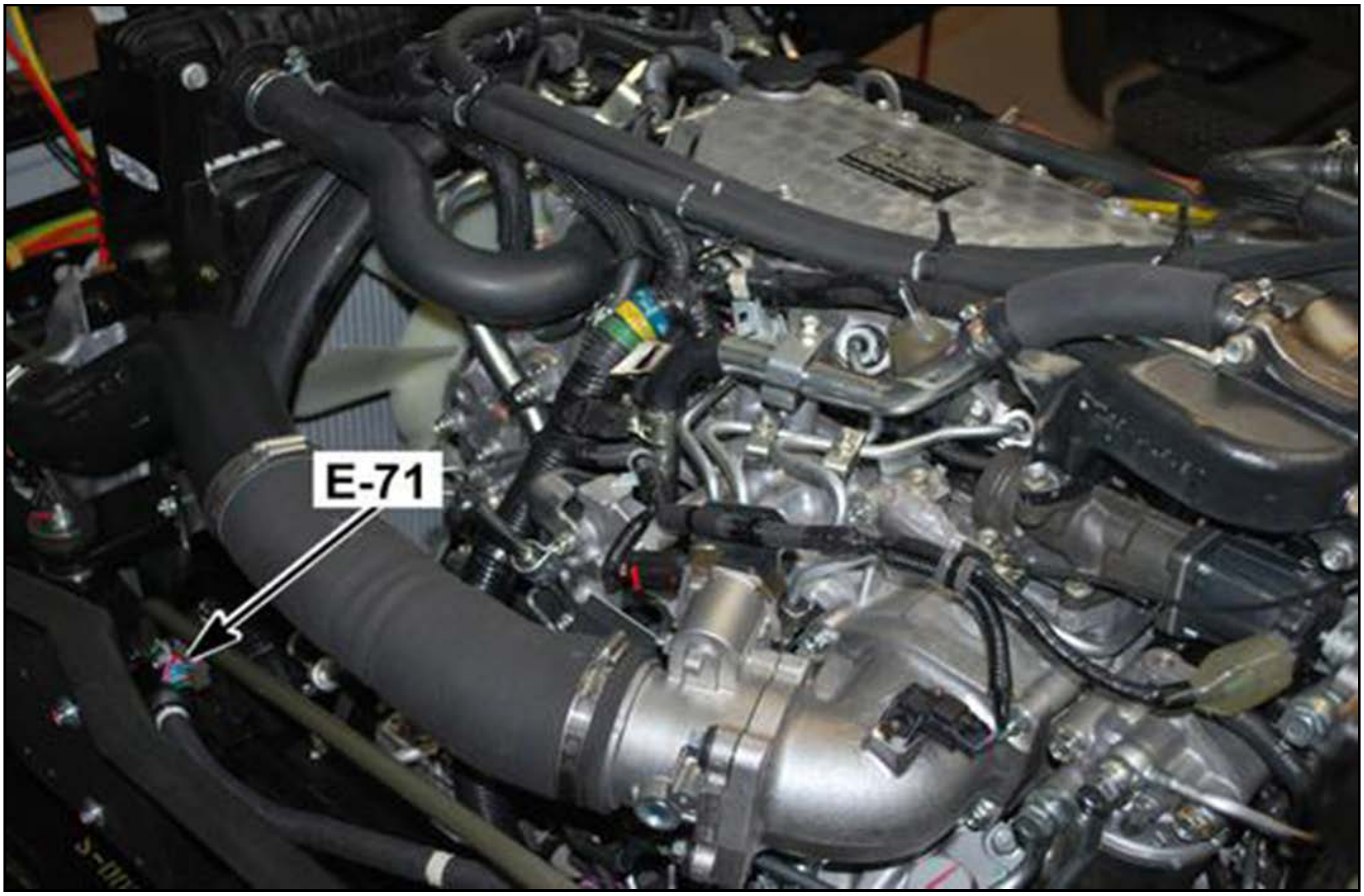
E-71 Variable Nozzle Turbocharger (VNT) Control Module



4891780

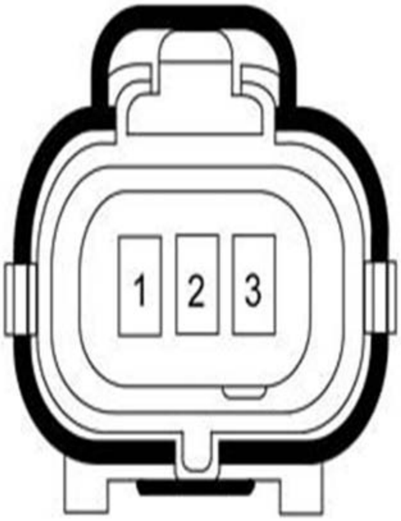
Connector Part Information		• 7123-7564-40 • 16-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU	IC193	Position Sensor Signal 1
2	BLU/WHT	IC195	Position Sensor Signal 2
3	BRN	IC197	Position Sensor Signal 3
4	RED	IC192	Position Sensor Low Reference
5	GRN	IC194	Position Sensor Shield Ground
6–7	—	—	Not Used
8	BRN	IC202	Position Sensor Reference Voltage
9	—	—	Not Used
10	VIO	IC199	VNT Motor Control 1
11	LT GRN	IC200	VNT Motor Control 2
12	YEL	IC201	VNT Motor Control 3
13	GRN/BLK	IC203	Ignition Voltage Feed
14	BLK	IZ12	Ground to E-74
15	BLU/WHT	TF29	J1939 CAN 1 High Signal
16	BLU	TF30	J1939 CAN 1 Low Signal

Left Front Corner of the Engine Compartment



4891782

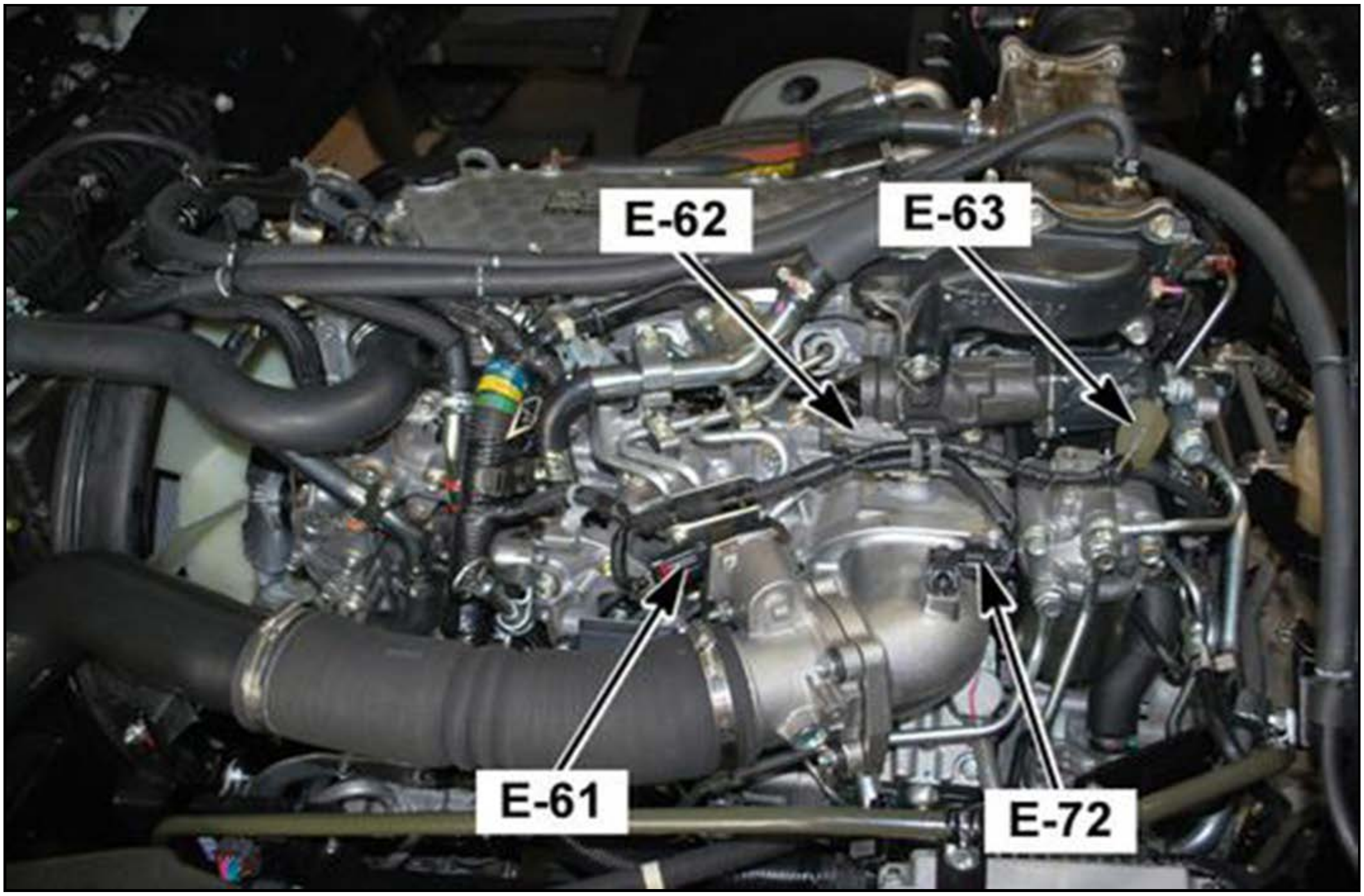
E-72 Boost Pressure Sensor



4891785

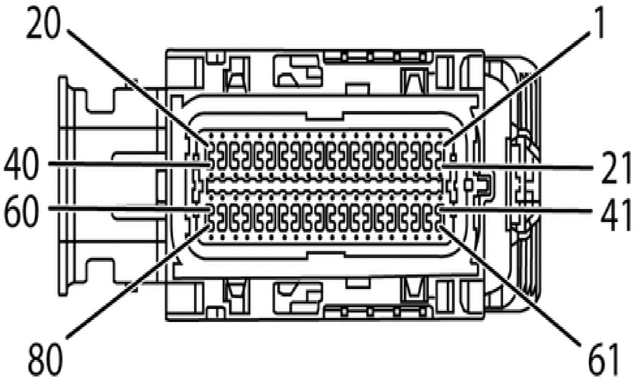
Connector Part Information		• 174357-2 • 3-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN	IC118	Sensor Signal
2	RED	IC119	Sensor Low Reference
3	BLU	IC117	Sensor 5V Reference

On the Left Upper Side of the Engine, Behind the Throttle Valve


E-62
E-63
E-61
E-72

4891740

E-73 Engine Control Module (ECM)

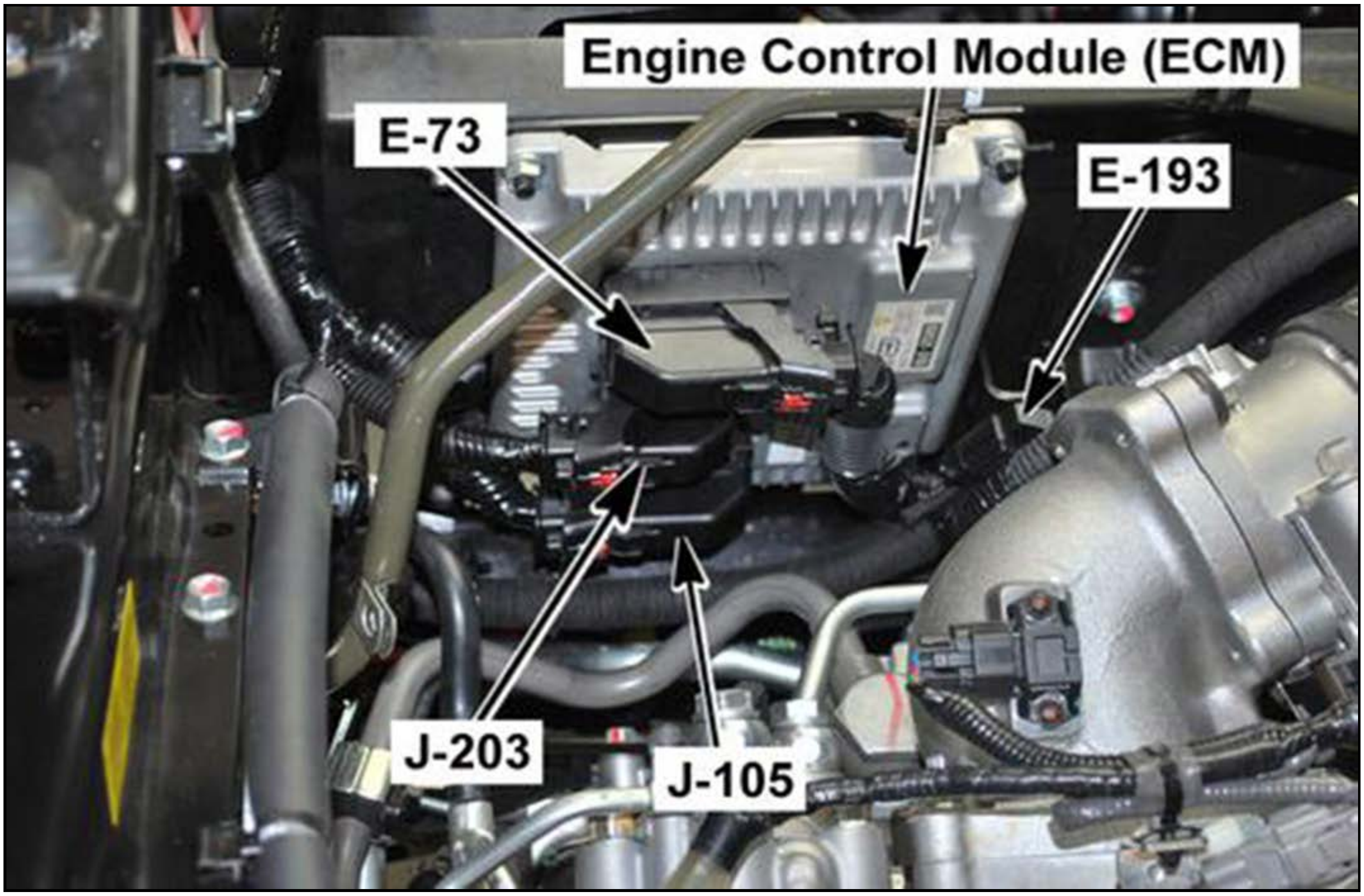

20
1
40
21
60
41
80
61

4891791

Connector Part Information		• 34566-1903 • 80-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU	IC223A	DPF Fuel Injector Control (-)
2	WHT	IC222A	DPF Fuel Injector Control (+) (Charge Voltage)
3	GRN/RED	IC113	FRP Regulator Low Side
4	BLU/RED	IC160	EGR Gas Temperature Sensor 2 Low Reference
5	BLK/YEL	IC104	Cylinder #3 Fuel Injector Control
6	RED/WHT	IC149	Common 1 (Cylinder #2 & #3) Fuel Injector Charge Voltage
7	—	—	Not Used
8	GRN/BLK	IC105	Cylinder #2 Fuel Injector Control
9	WHT/BLU	IC110	FRP Regulator Control High Side (PWM)
10	—	—	Not Used
11	GRN/YEL	IC125	ECT Sensor Signal
12	LT GRN/WHT	IC123	FT Sensor Signal
13	GRN	IC118	Boost Pressure Sensor Signal
14	GRN/BLU	IC225	FRP Sensor 1 5 Volt Reference 1 Voltage
15–16	—	—	Not Used
17	WHT/RED	IC97	Common 1 (Cylinder #1 & #4) Fuel Injector Charge Voltage
18	GRN/RED	IC151	Cylinder #1 Fuel Injector Control
19	WHT/VIO	IC152	Cylinder #4 Fuel Injector Control
20–22	—	—	Not Used
23	GRN/RED	IC112	FRP Regulator Low Side
24	BLU/YEL	IC162	IAT Sensor 2 Low Reference
25	—	—	Not Used
26	VIO	IC503	Common 1 (Cylinder #2 & #3) Fuel Injector Charge Voltage
27–28	—	—	Not Used
29	WHT/BLU	IC111	FRP Regulator Control High Side (PWM)
30	—	—	Not Used
31	BLU	IC133A	FRP Sensor 2 Low Reference
32	YEL	IC131	FRP Sensor 2 Signal
33	—	—	Not Used
34	YEL/RED	IC995	Crankshaft Pressure Sensor 5 Volt Reference
35–36	—	—	Not Used
37	LT GRN	IC502	Common 1 (Cylinder #1 & #4) Fuel Injector Charge Voltage
38–40	—	—	Not Used
41	BLK/GRN	IC108	IAF Valve Motor Drive Voltage
42–44	—	—	Not Used
45	BLU	IC117	Boost Pressure Sensor 5 Volt Reference 4 Voltage
46	BLU/RED	IC127	CMP Sensor 5 Volt Reference 4 Voltage
47–48	—	—	Not Used
49	WHT/BLK	IC124	FT Sensor Low Reference
50	—	—	Not Used
51	RED/BLU	IC161	IAT Sensor 2 Signal
52	BLU/BLK	IC997	Crankshaft Pressure Sensor Signal

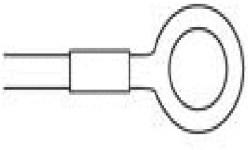
Connector Part Information		• 34566-1903 • 80-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
53	—	—	Not Used
54	WHT	IC148	CKP Sensor Signal
55	VIO/WHT	IC996	Crankshaft Pressure Sensor Low Reference
56	BLK/BLU	IC126	ECT Sensor Low Reference
57	BLU	IC129A	CMP Sensor Low Reference
58	BLU/WHT	IC128	CMP Sensor Signal
59	GRN	IC130	FRP Sensor 2 5 Volt Reference 2 Voltage
60	WHT	IC227A	FRP Sensor 1 Low Reference
61	GRN/WHT	IC109	IAF Valve Motor Control Low Side (PWM)
62–63	—	—	Not Used
64	BLU/WHT	IC157	EGR Gas Temperature Sensor 1 Low Reference
65	RED	IC114	CKP Sensor 5V Reference 3 Voltage
66	ORN	IC998	DPF Fuel Cut Solenoid Valve Control
67–69	—	—	Not Used
70	RED/GRN	IC156	EGR Gas Temperature Sensor 1 Signal
71–72	—	—	Not Used
73	RED/YEL	IC159	EGR Gas Temperature Sensor 2 Signal
74	—	—	Not Used
75	BLK	IC147A	CKP Sensor Low Reference
76	RED	IC119	Boost Pressure Sensor Low Reference
77	BLU	E04	CAN Serial Data Low, to Resistor and Glow Plug Control Module
78	BLU/WHT	E03	CAN Serial Data High, to Resistor and Glow Plug Control Module
79	BRN	IC226	FRP Sensor 1 Signal
80	—	—	Not Used

Left Side of the Engine, in Front of the Rear Cab Mount


Engine Control Module (ECM)
E-73
E-193
J-203
J-105

4891795

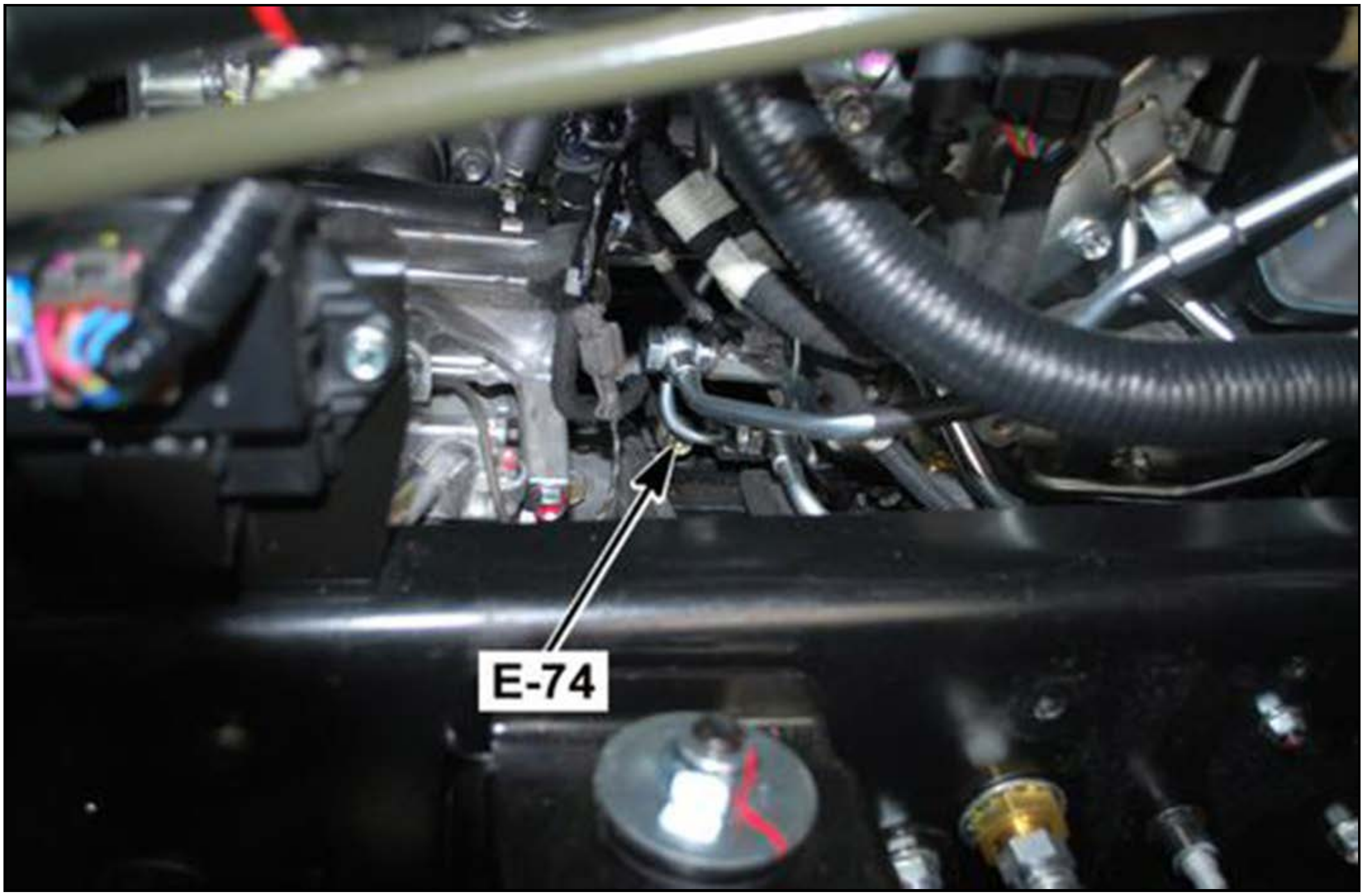
E-74 Ground



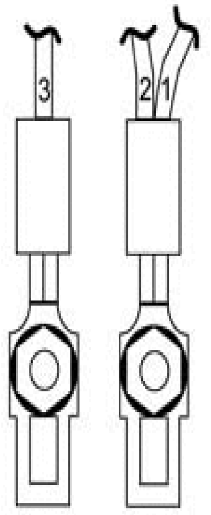
4891426

Connector Part Information	- LA 210 - 1-Way Eyelet		
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	HY01	Ground to Glow Plug Control Module, EGR Valve, VNT Control Module
—	BLK	EE08	Ground to Engine Oil Level Switch, Low Coolant Level Sensor

Left Side of the Engine, Above the Motor Mount



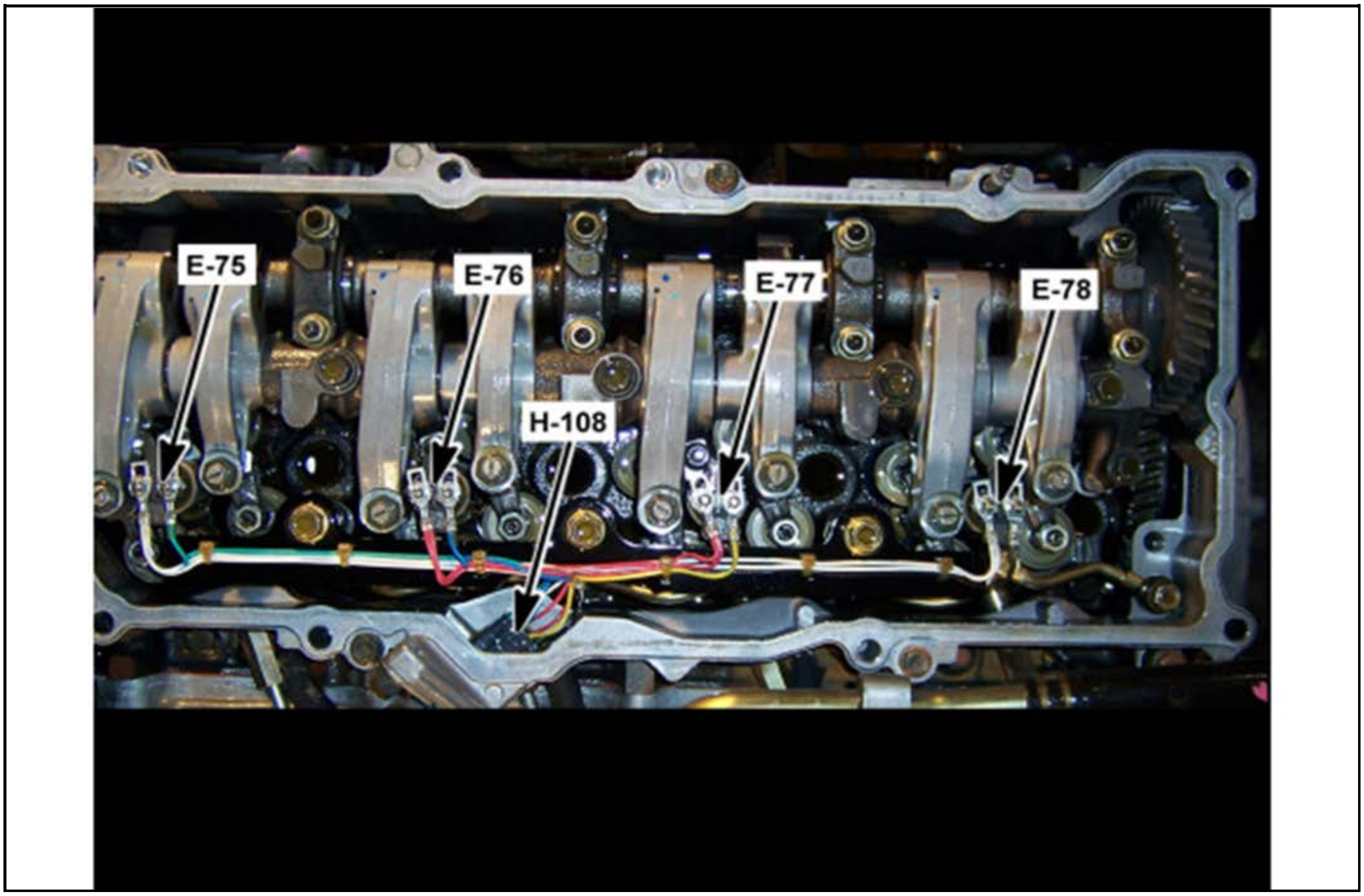
E-75 Fuel Injector No. 1



4891803

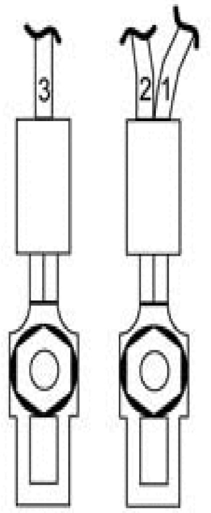
Connector Part Information		• 1-Way F	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT	2	Fuel Injector Supply Voltage
2	WHT	1	Fuel Injector Supply Voltage
3	GRN	3	Fuel Injector #1 Control

On the Upper Left Side of the Engine, In the Cylinder Head, Under the Valve Cover, At Cylinder 1



4891806

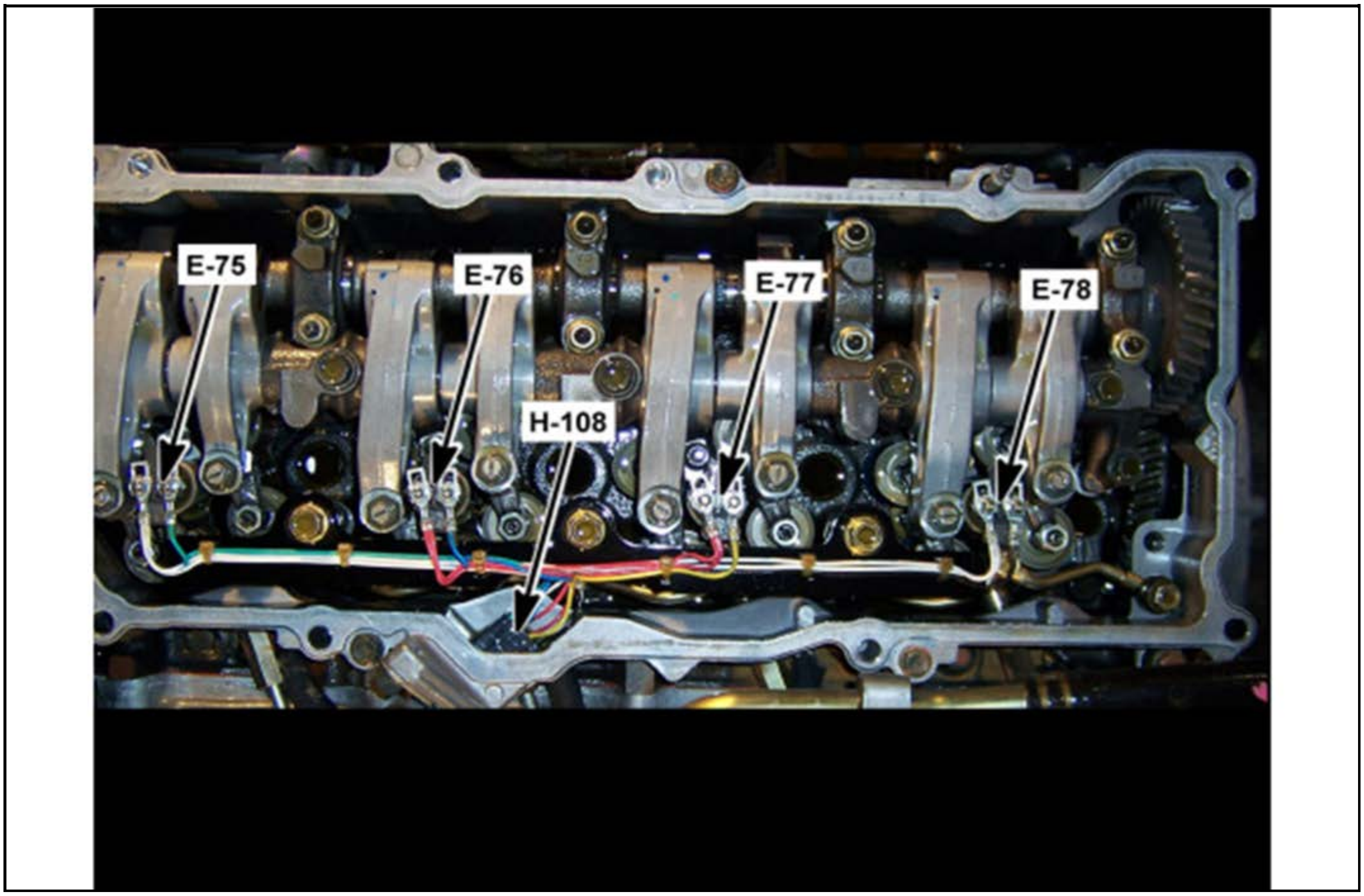
E-76 Fuel Injector No. 2



4891803

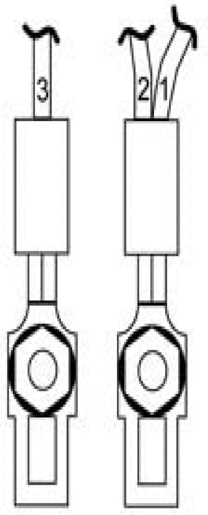
Connector Part Information		• 1-Way F	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED	4	Fuel Injector Supply Voltage
2	RED	5	Fuel Injector Supply Voltage
3	BLU	6	Fuel Injector #2 Control

On the Upper Left Side of the Engine, In the Cylinder Head, Under the Valve Cover, At Cylinder 2



4891806

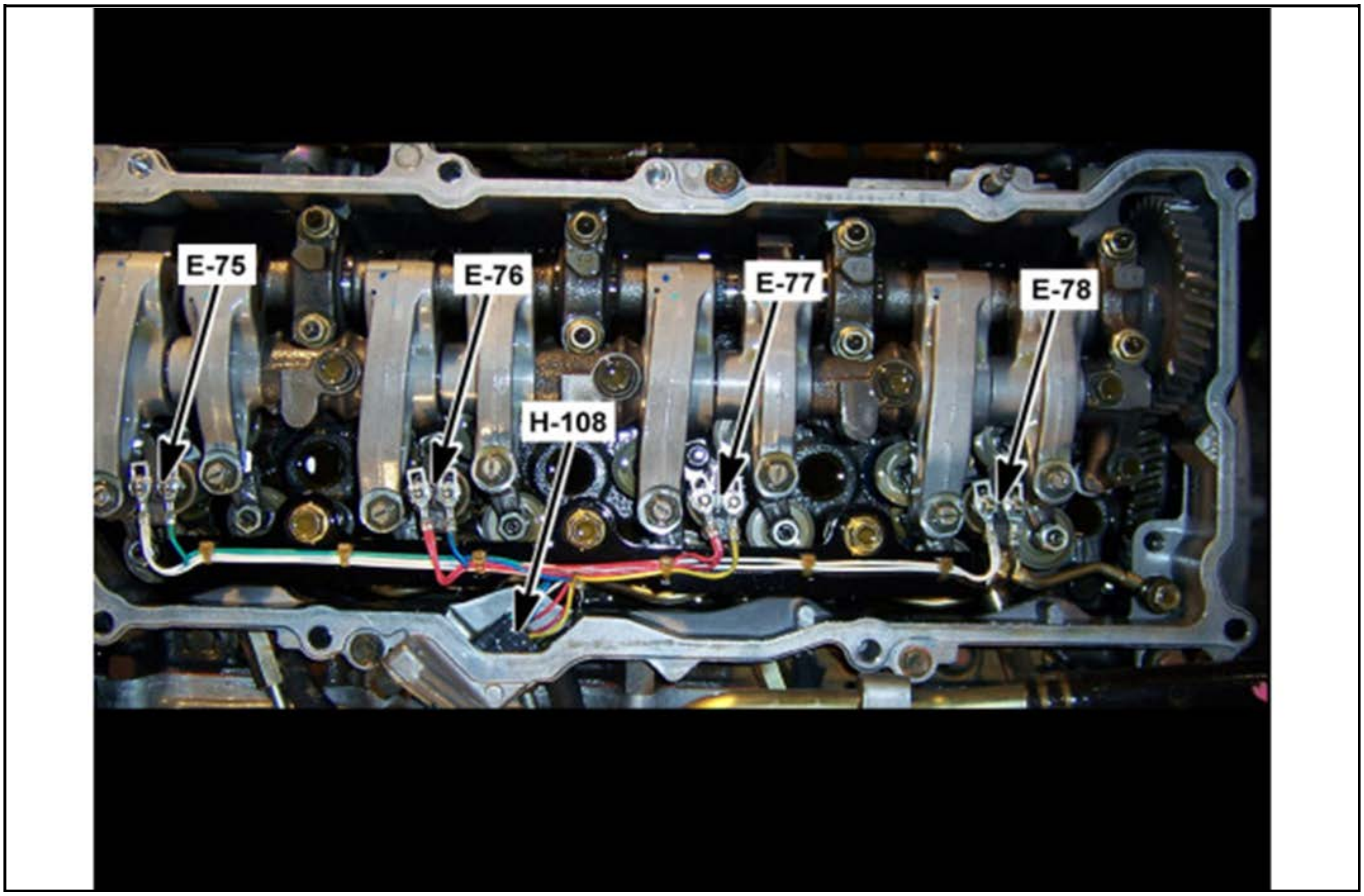
E-77 Fuel Injector No. 3



4891803

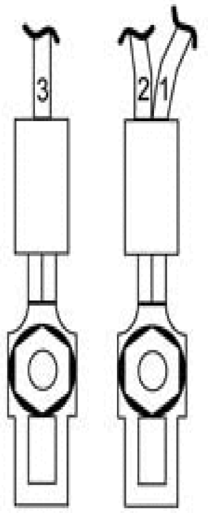
Connector Part Information		• 1-Way F	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED	7	Fuel Injector Supply Voltage
2	RED	4	Fuel Injector Supply Voltage
3	YEL	8	Fuel Injector #3 Control

On the Upper Left Side of the Engine, In the Cylinder Head, Under the Valve Cover, At Cylinder 3



4891806

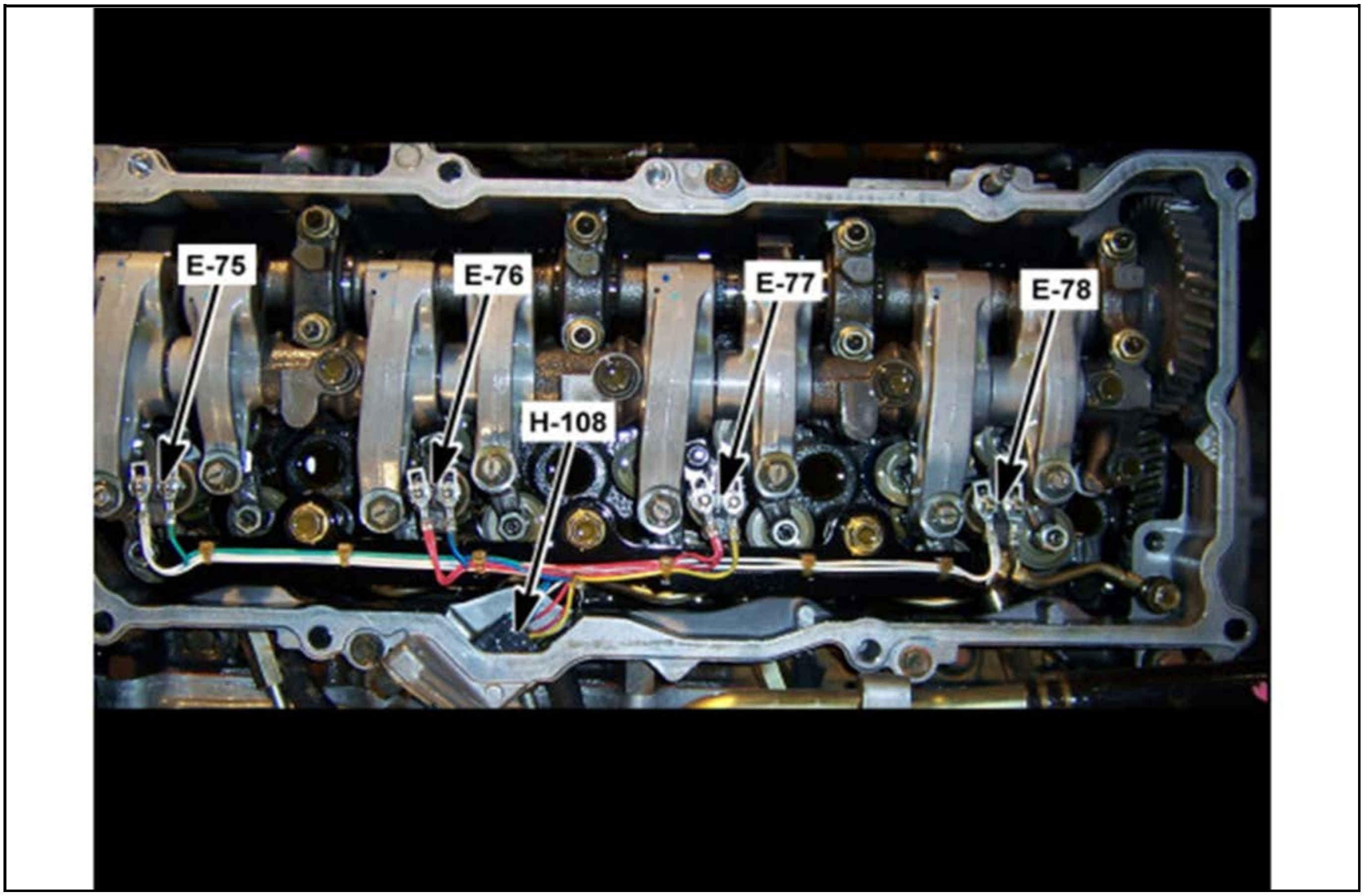
E-78 Fuel Injector No. 4



4891803

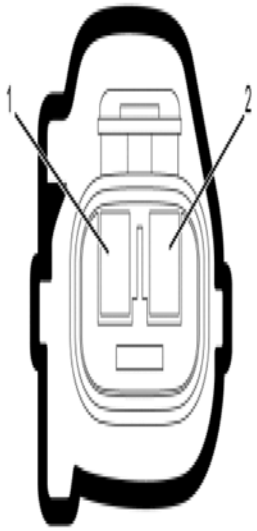
Connector Part Information		• 1-Way F	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT	9	Fuel Injector Supply Voltage
2	WHT	1	Fuel Injector Supply Voltage
3	BLK	10	Fuel Injector #4 Control

On the Upper Left Side of the Engine, In the Cylinder Head, Under the Valve Cover, At Cylinder 4



4891806

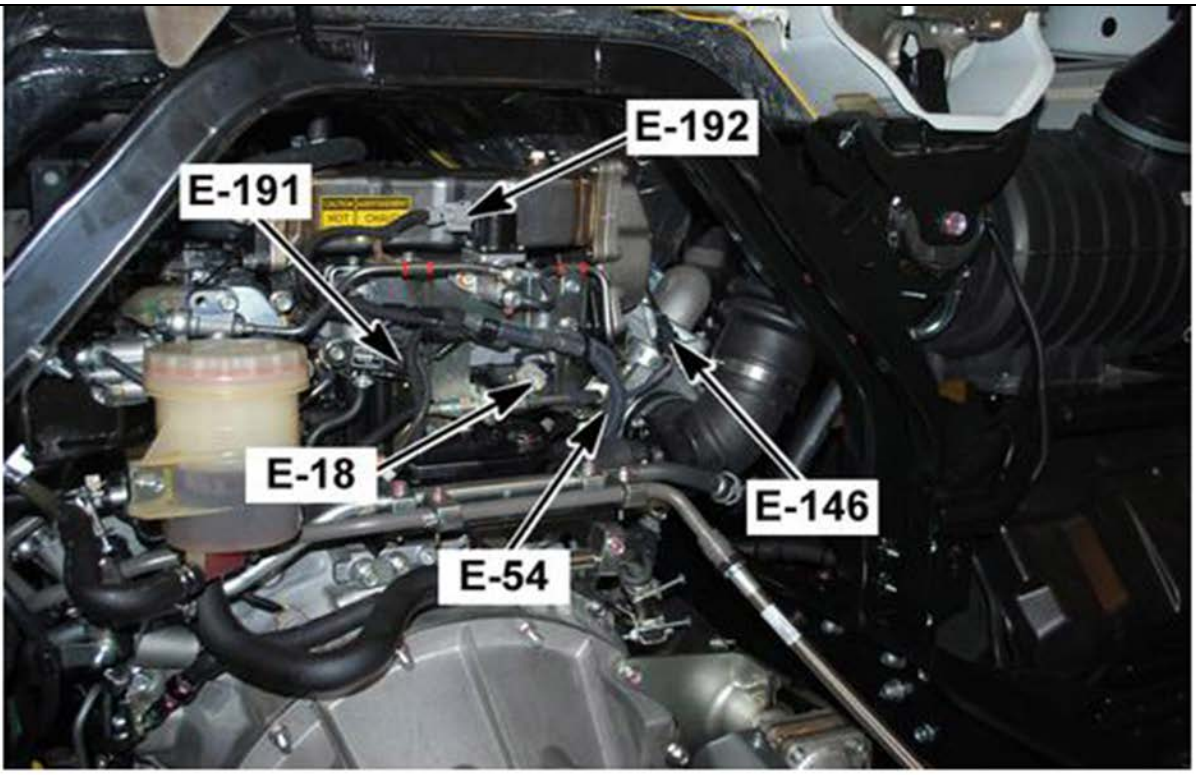
E-146 Turbocharger Outlet Air Temperature Sensor



4891459

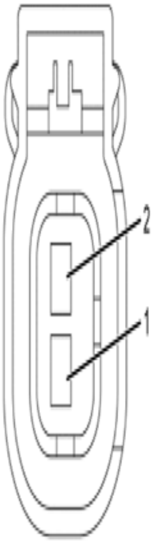
Connector Part Information		• 7383-7020-30 • 2-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	PNK	IC115	Sensor Signal
2	BRN	IC116	Sensor Low Reference

Right Rear of the Cylinder Head


E-192
E-191
E-18
E-146
E-54

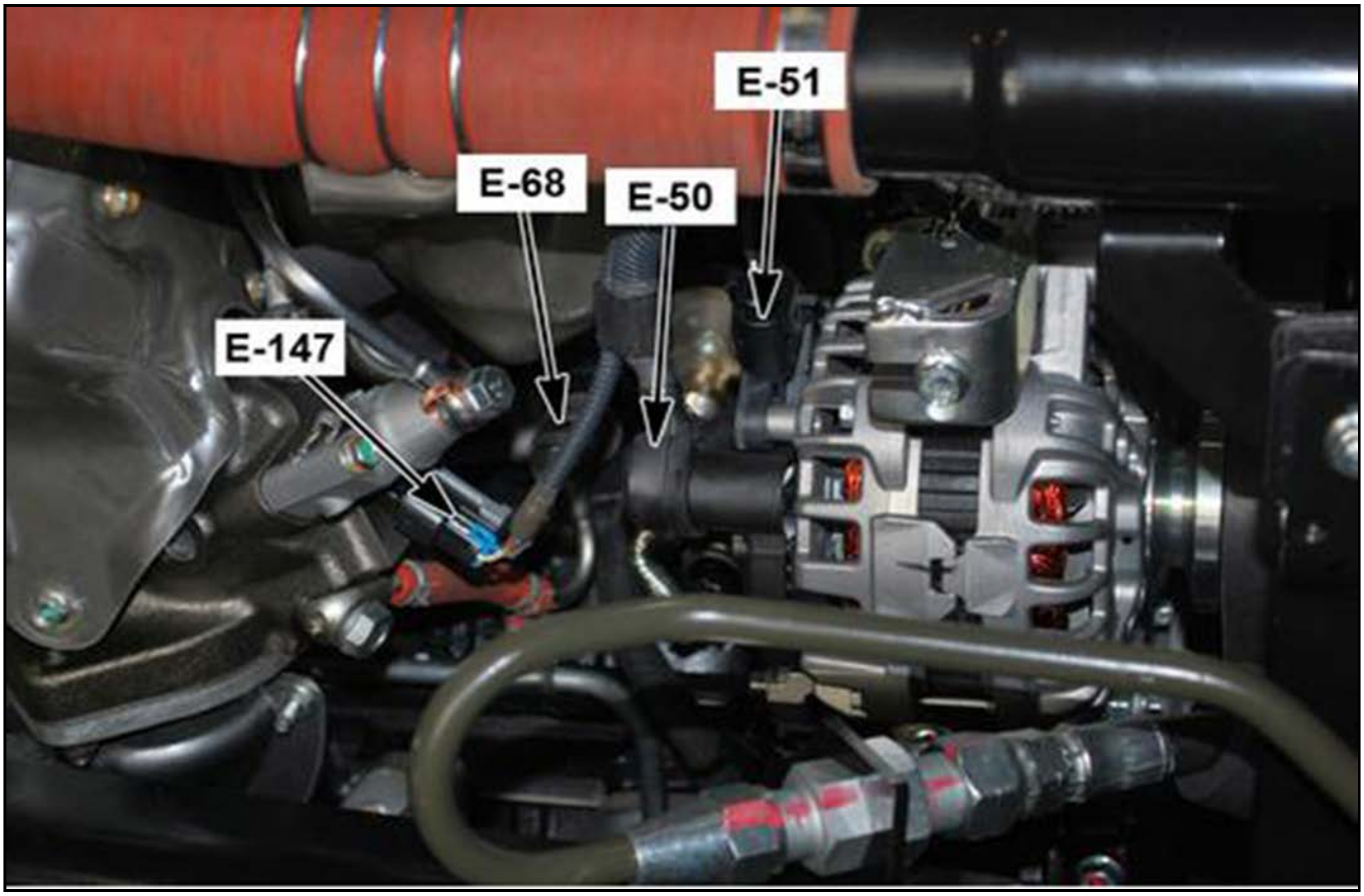
4891407

E-147 Diesel Particulate Filter (DPF) Fuel Injector



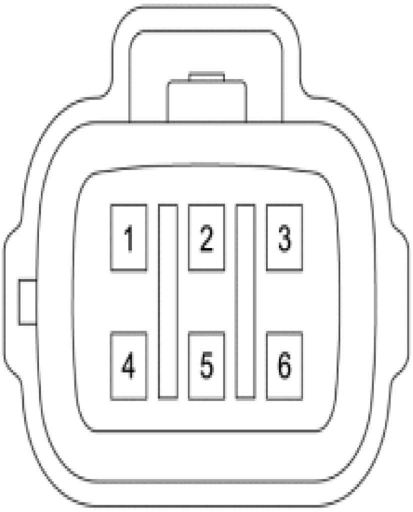
4891845

Connector Part Information	- 1530-5086 - 2-Way F (BLK)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT	IC222	DPF Fuel Injector Charge Voltage
2	BLU	IC223	DPF Fuel Injector Control


E-51
E-68
E-50
E-147

4891452

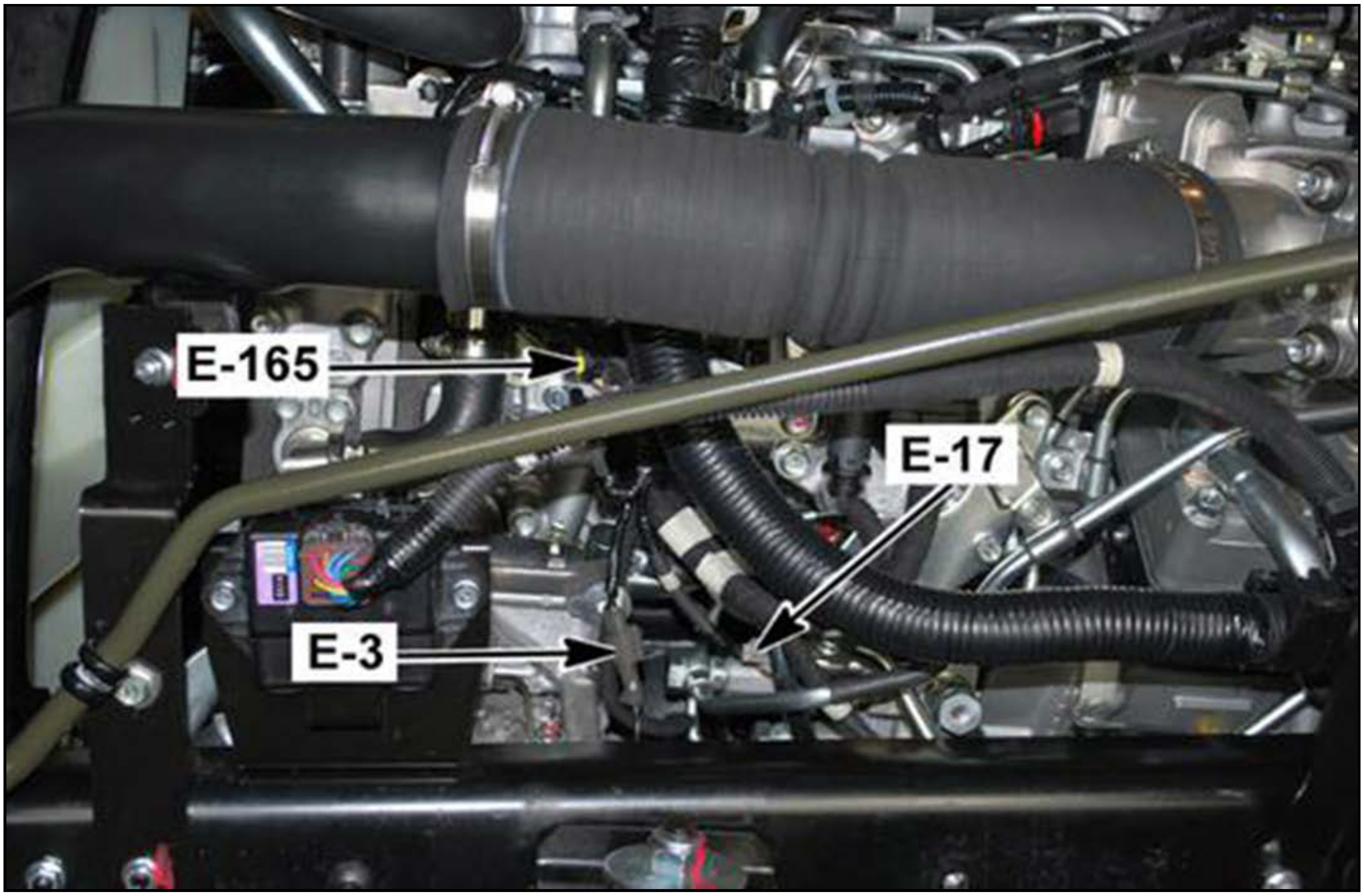
E-165 Fuel Rail Pressure (FRP) Sensor



4891850

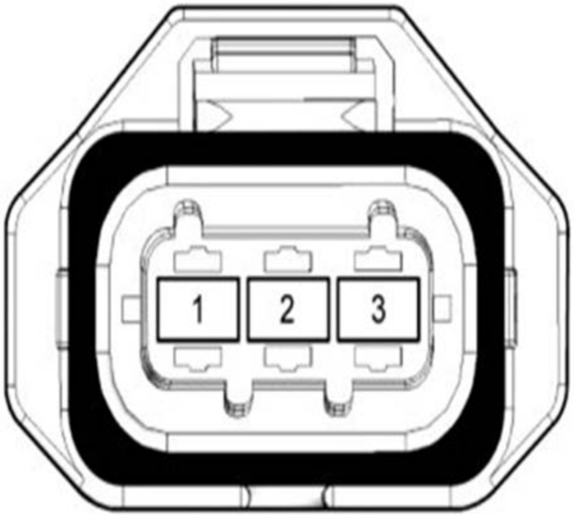
Connector Part Information		• 6189-0331 • 6-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/BLU	IC225	Sensor 1 5V Reference
2	BRN	IC226	Sensor 1 Signal
3	WHT	IC227	Sensor 1 Low Reference
4	BLU	IC133	Sensor 2 Low Reference
5	YEL	IC131	Sensor 2 Signal
6	GRN	IC130	Sensor 2 5V Reference

On the Left Side of the Engine, On the Front of the Fuel Rail



4891369

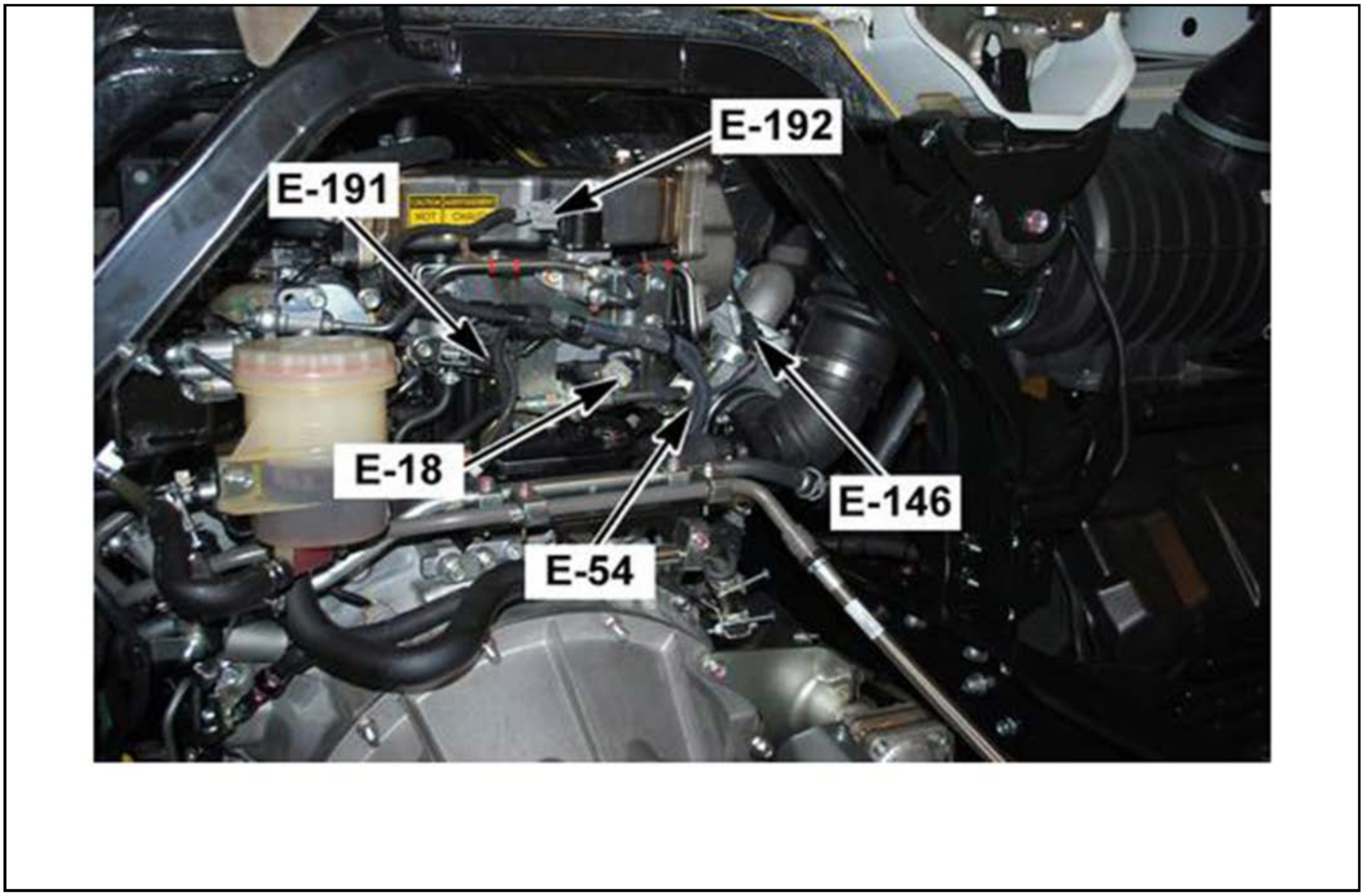
E-191 Crankcase Pressure Sensor



4891861

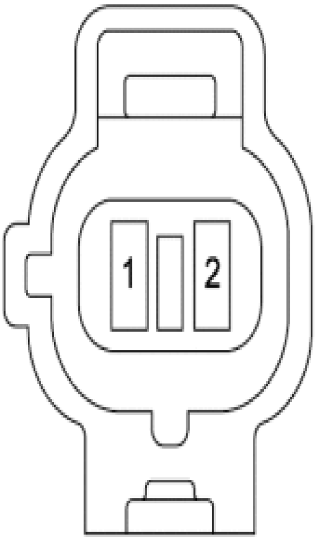
Connector Part Information		- 928-403-966 - 3-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	YEL/RED	IC995	Sensor 5V Reference
2	VIO/WHT	IC996	Sensor Low Reference
3	BLU/BLK	IC997	Sensor Signal

Back of the Cylinder Head


E-192
E-191
E-18
E-146
E-54

4891407

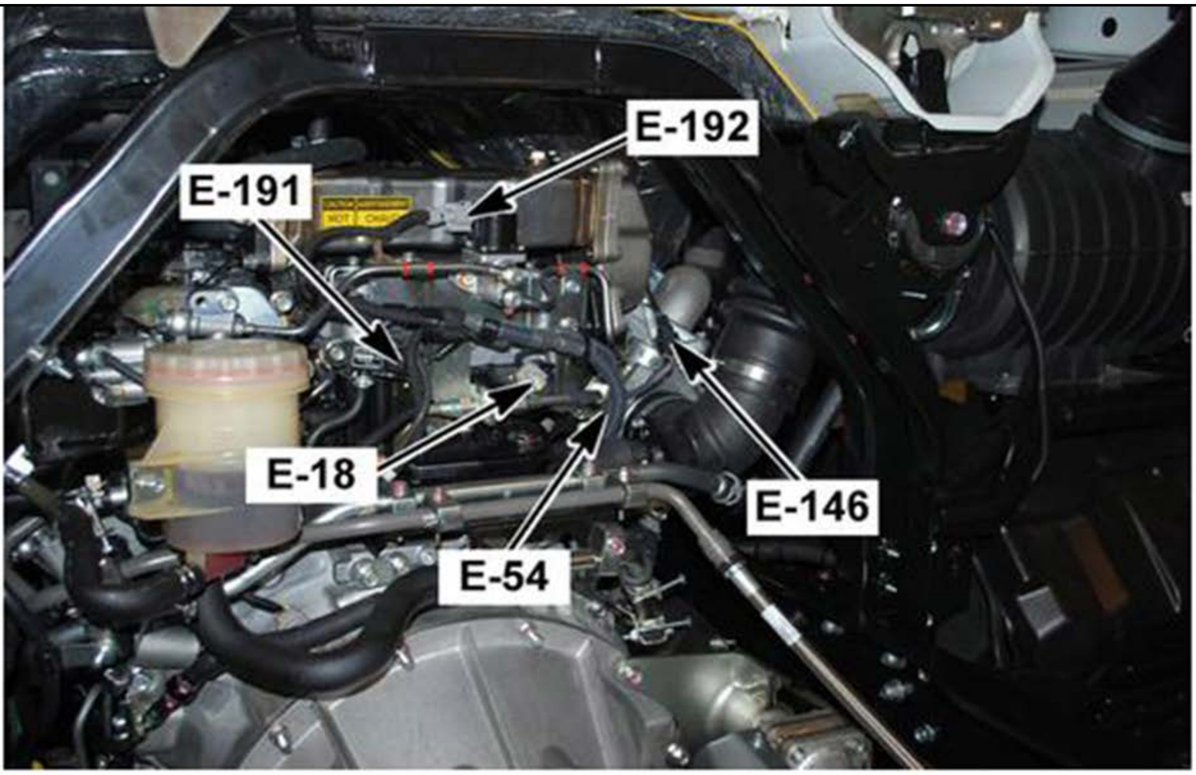
E-192 DPF Fuel Cut Solenoid Valve



4891863

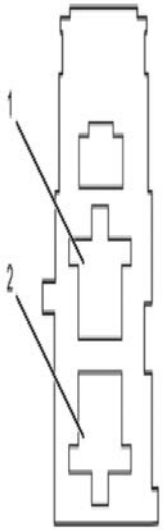
Connector Part Information	- 6189-0682 - 2-Way F (GRY)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	ORN	IC998	DPF Fuel Cut Solenoid Valve Solenoid Valve Control to ECM
2	RED/WHT	IC999E	DPF Fuel Cut Solenoid Valve Solenoid Valve Voltage from X-18 ECM Main Relay

Back of the Cylinder Head


E-192
E-191
E-18
E-146
E-54

4891407

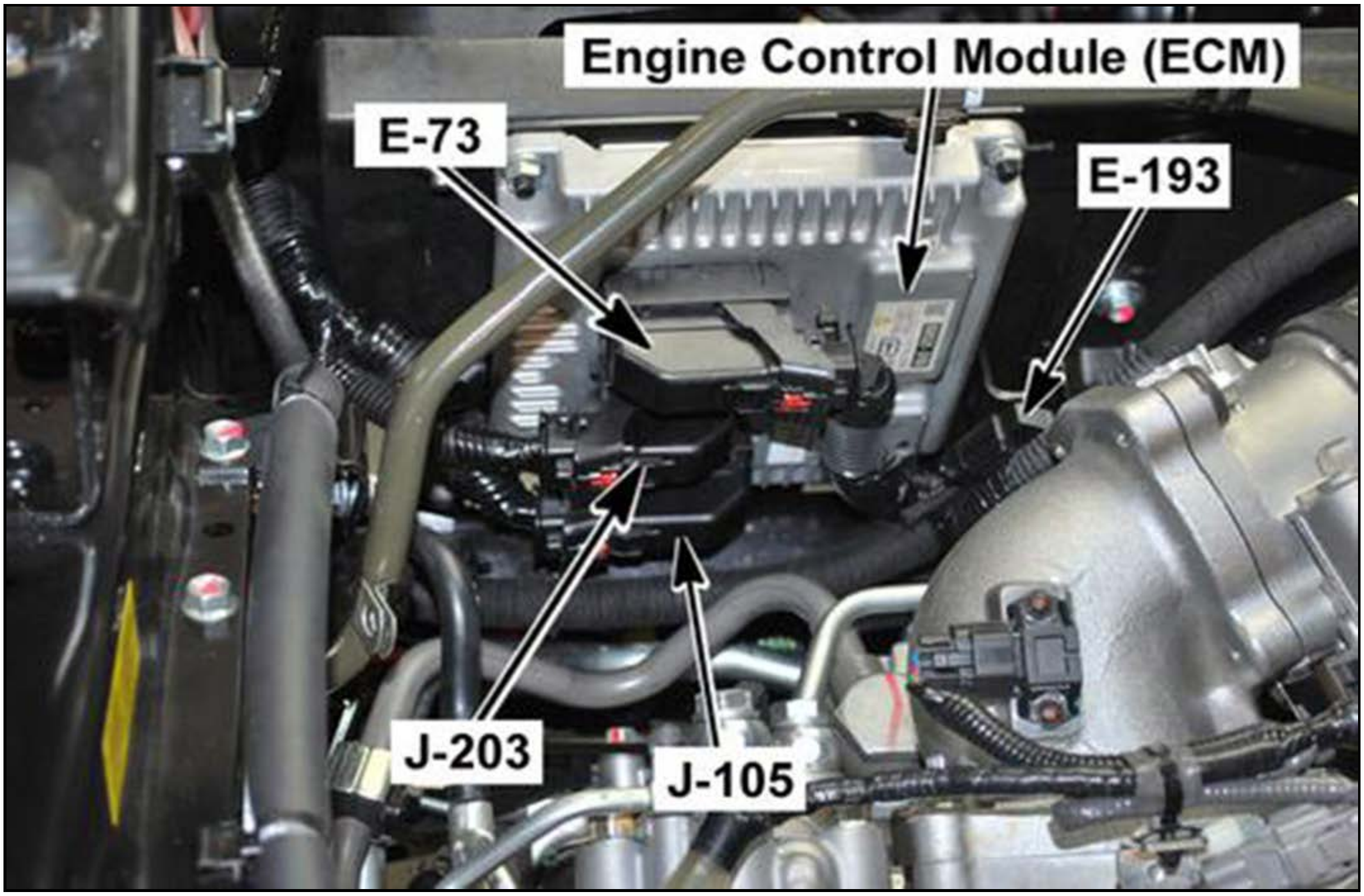
E-193 CAN Resistor



4891112

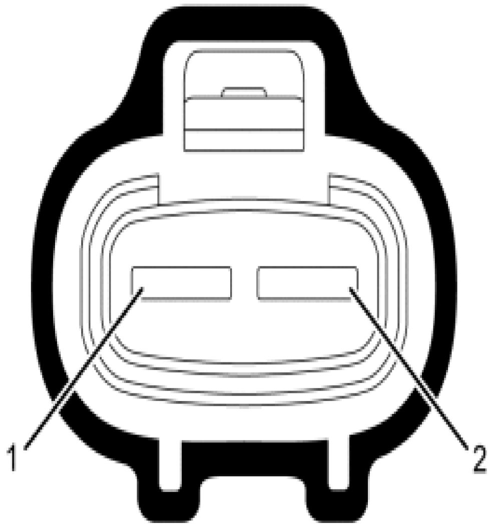
Connector Part Information	- 7323-6423-30 - 2-Way F (BLK)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU/WHT	E01	CAN Serial Data High
2	BLU	E02	CAN Serial Data Low

Left Side of the Engine, Next to the Engine Control Module (ECM)


Engine Control Module (ECM)
E-73
E-193
J-203
J-105

4891795

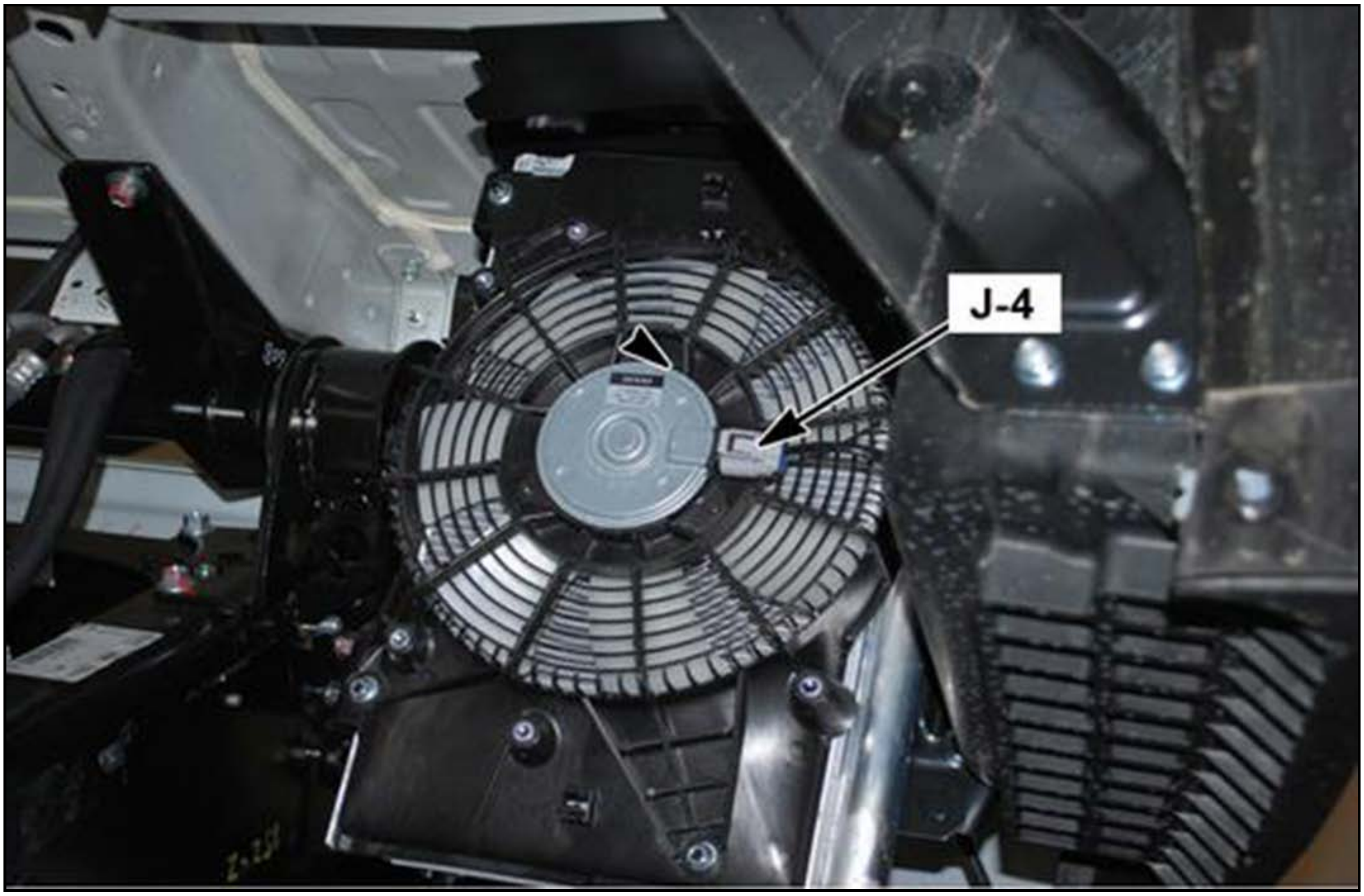
J-4 Condenser Fan



4892326

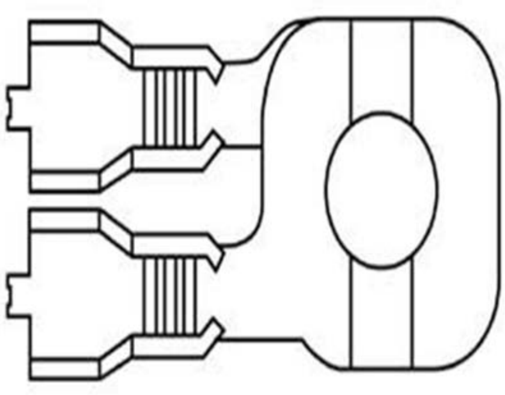
Connector Part Information		• 61761466 • 2-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	QX001B	Ground to B-48 Junction Block (B-53 Ground)
2	BLU/BLK	QA003B	Switch Output Voltage from Condenser Fan Relay

Under the Right Front of the Cab, In Front of the Front Mud Flap



4892329

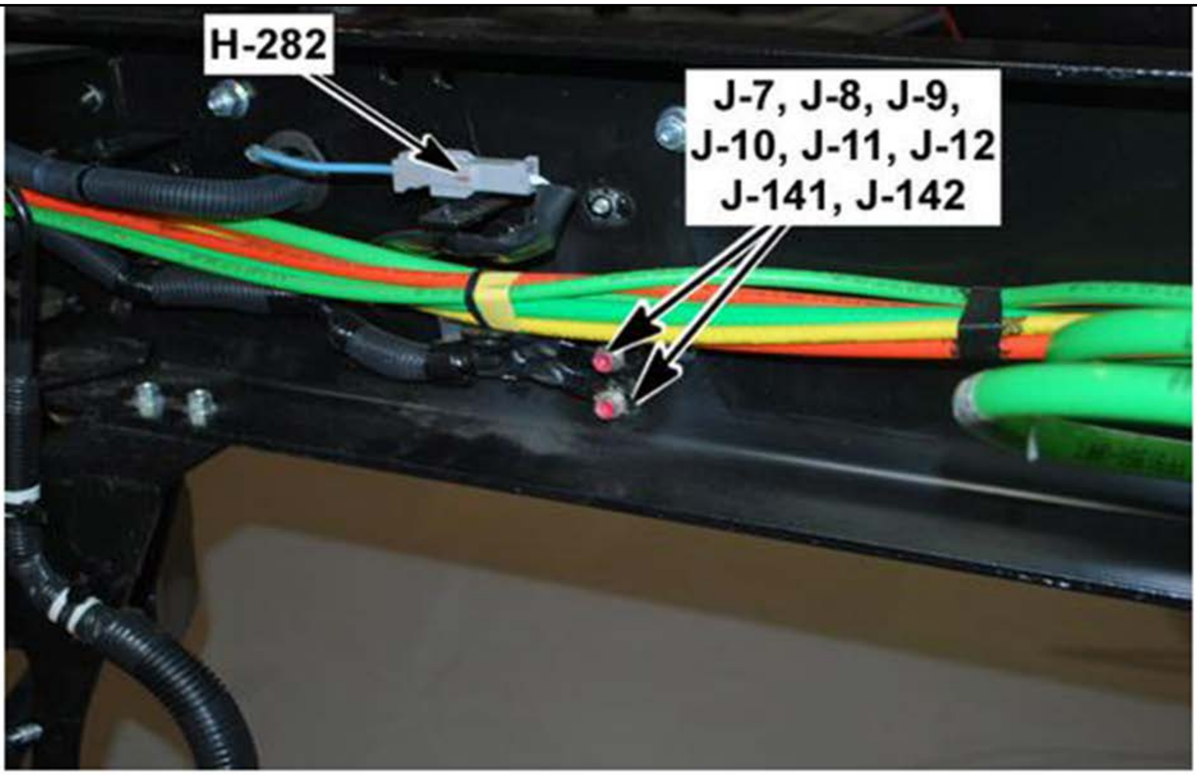
J-7 Ground



4892337

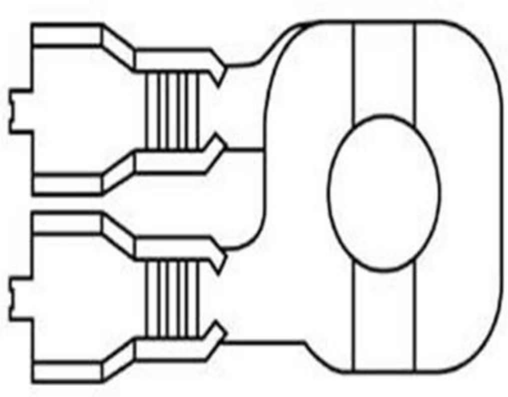
Connector Part Information		• LA-08-R1 • 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	ZZ027C	Ground to Splice 5

Right Inner Frame Rail, Next to the Batteries


H-282
J-7, J-8, J-9,
J-10, J-11, J-12
J-141, J-142

4892315

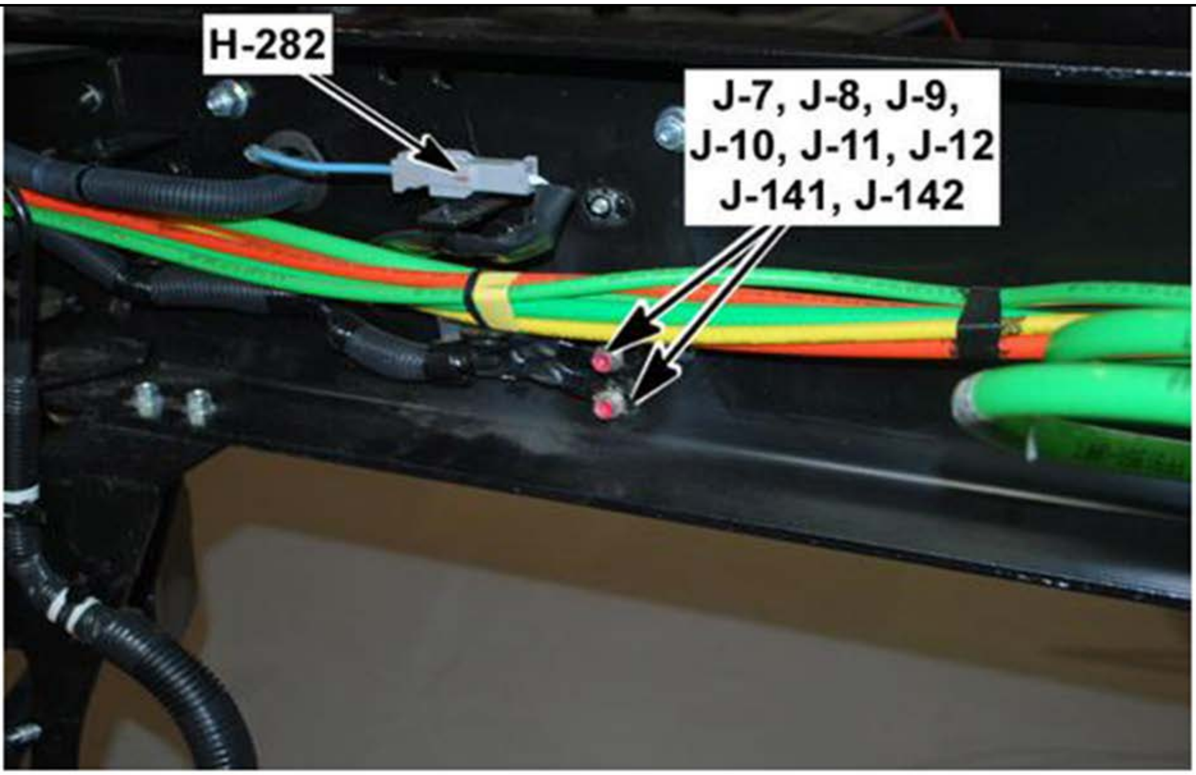
J-8 Ground



4892337

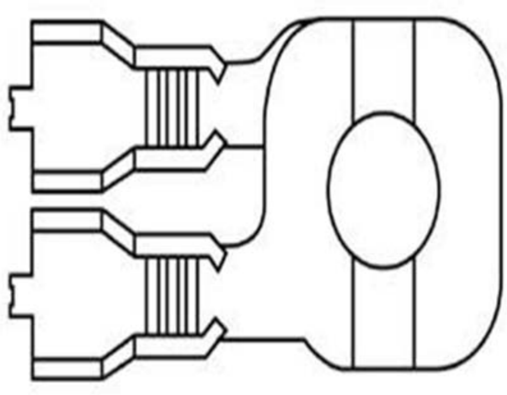
Connector Part Information		• LA-08-L1 • 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	ZZ001C	Ground to Splice 2

Right Inner Frame Rail, Next to the Batteries


H-282
J-7, J-8, J-9,
J-10, J-11, J-12
J-141, J-142

4892315

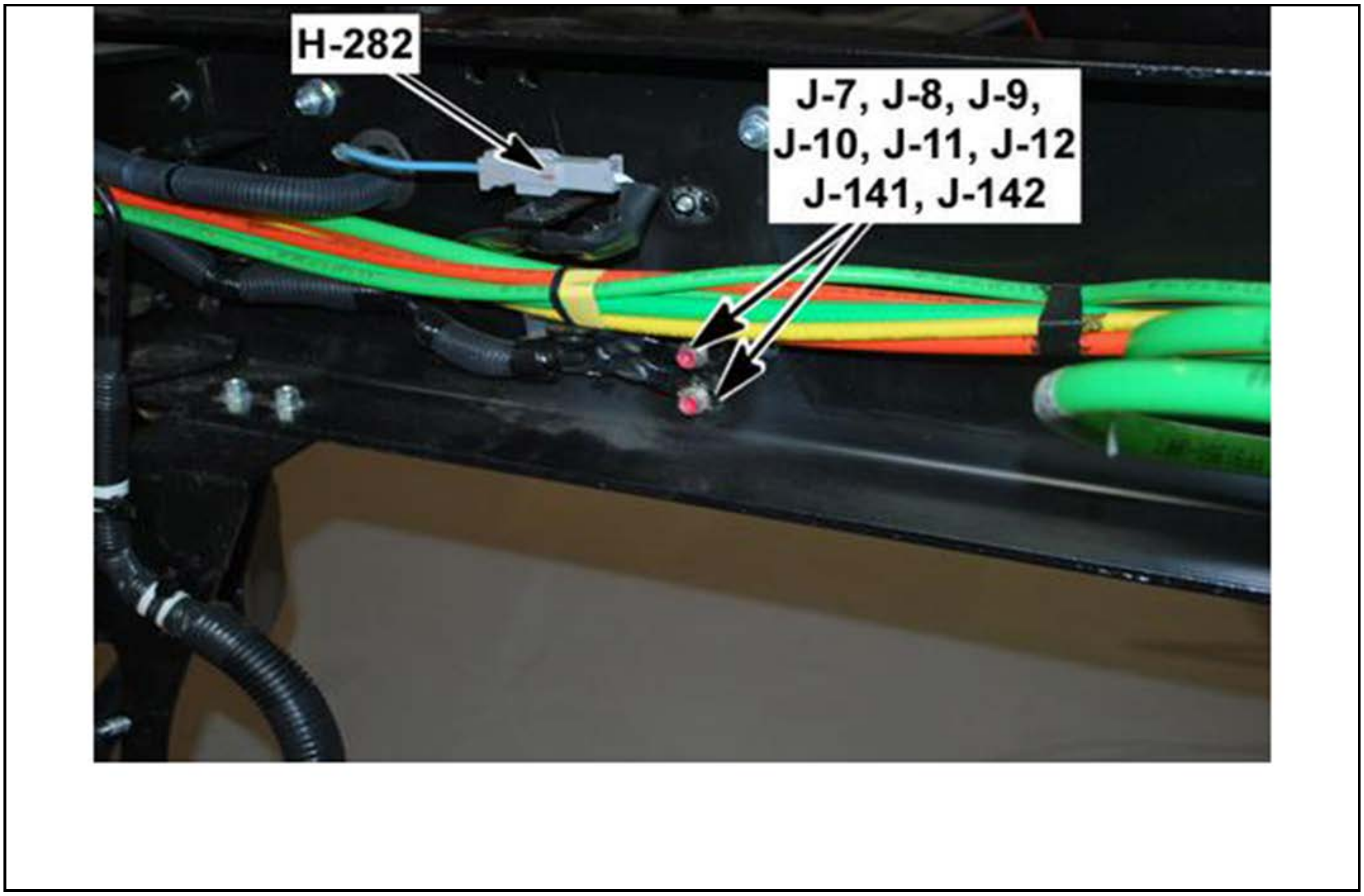
J-9 Ground



4892337

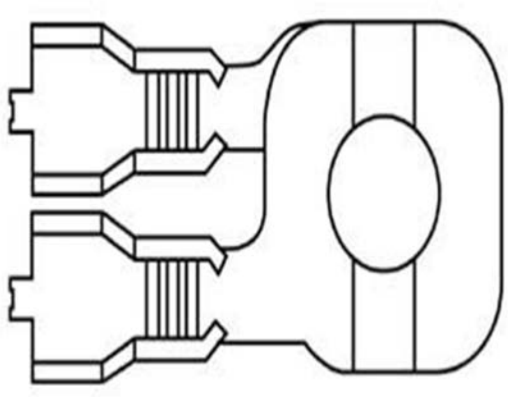
Connector Part Information		• LA-08-R1 • 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	ZZ028C	Ground to Splice 5

Right Inner Frame Rail, Next to the Batteries


H-282
J-7, J-8, J-9,
J-10, J-11, J-12
J-141, J-142

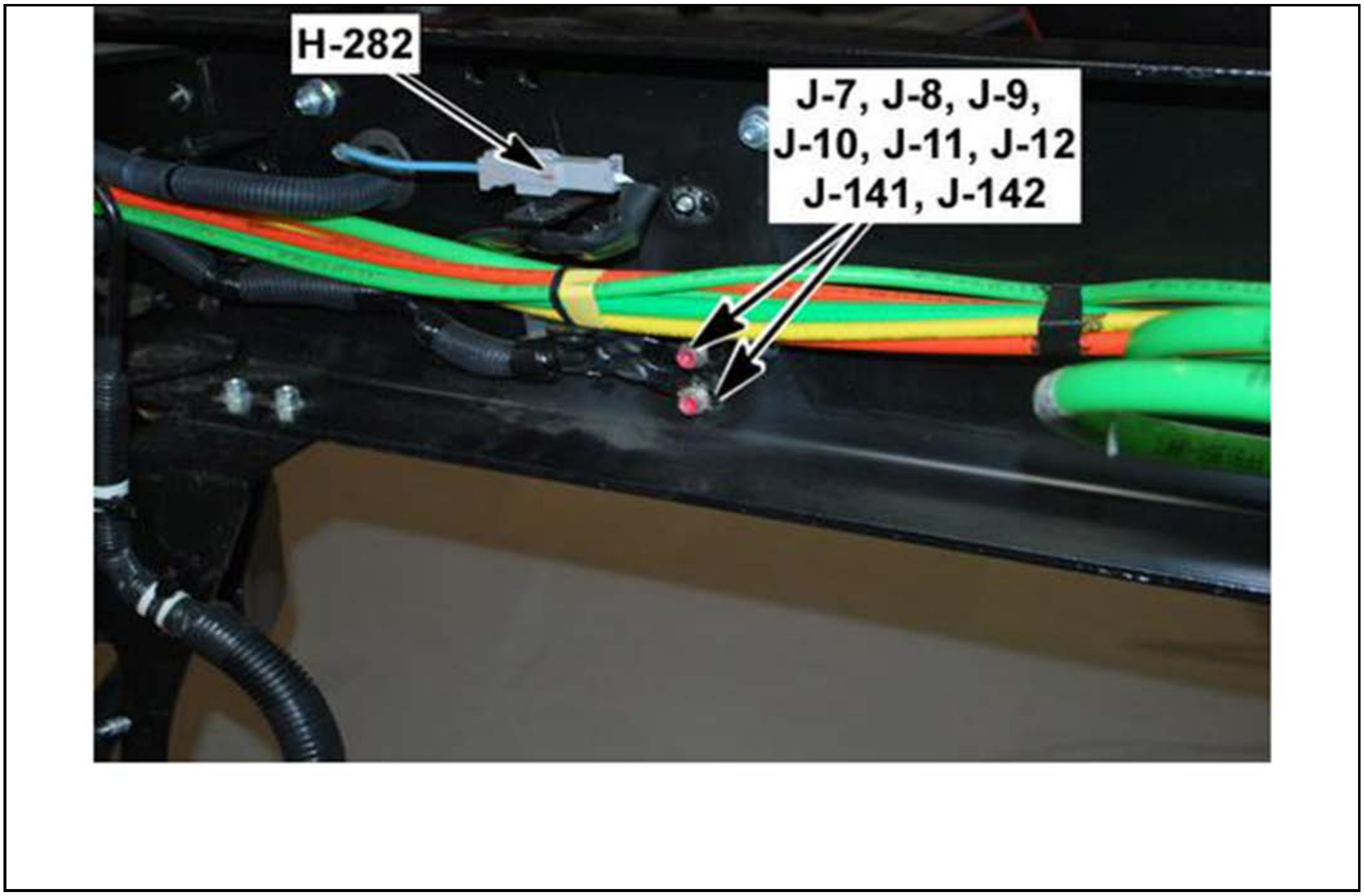
4892315

J-10 Ground



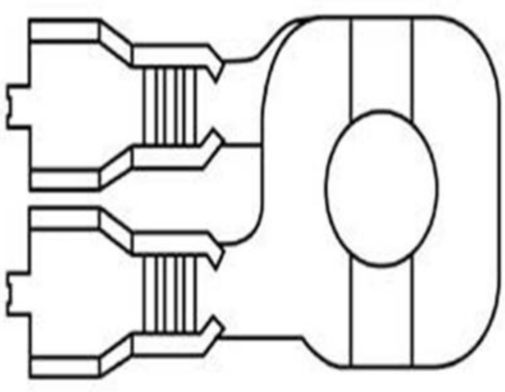
Connector Part Information		• LA-08-L1 • 1-Way Eyelet	
Pin	Wire Color	Circuit Number	Function
—	BLK	ZZ024C	Ground to Splice 7

Right Inner Frame Rail, Next to the Batteries


H-282
J-7, J-8, J-9,
J-10, J-11, J-12
J-141, J-142

4892315

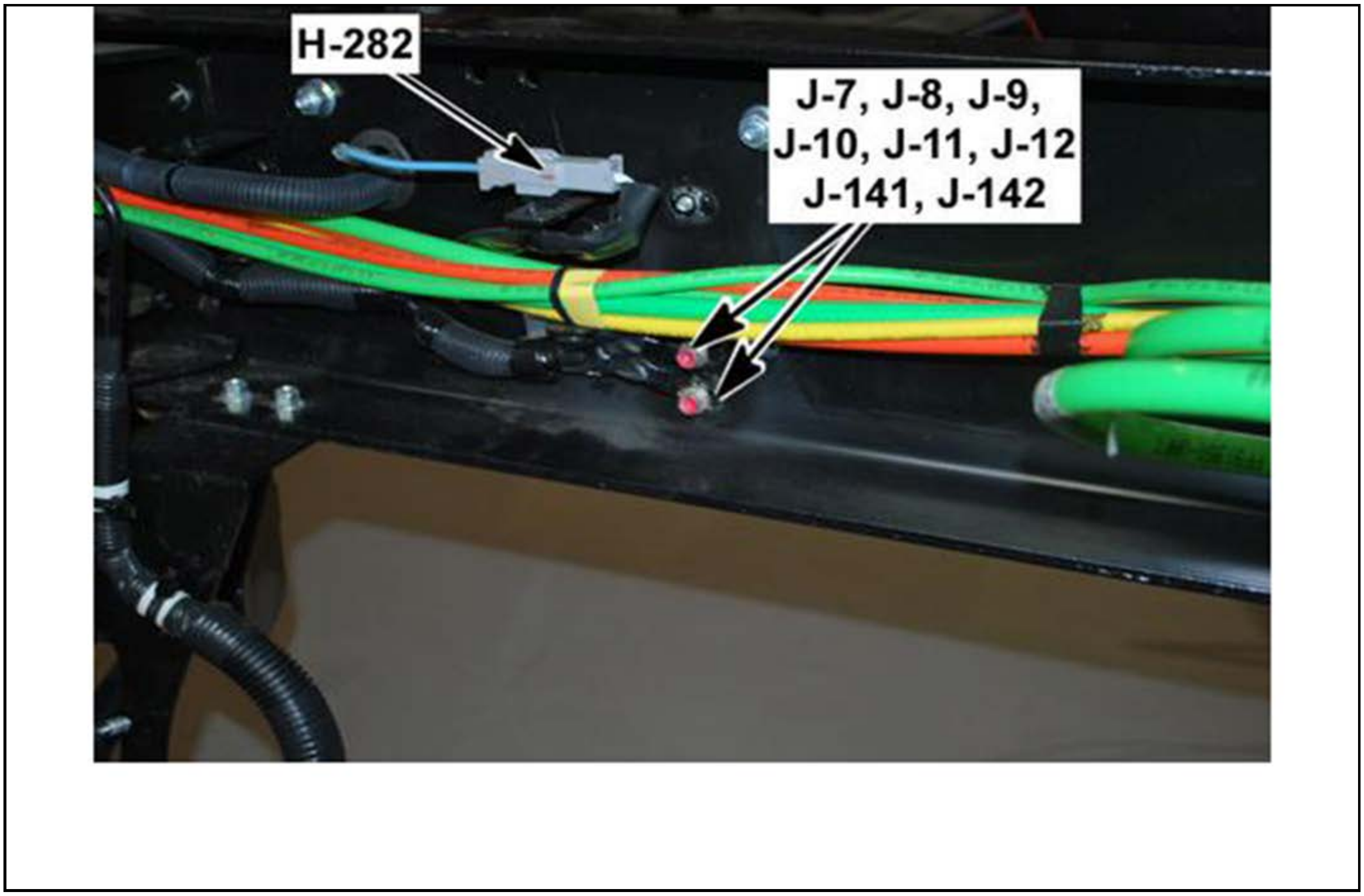
J-11 Ground



4892337

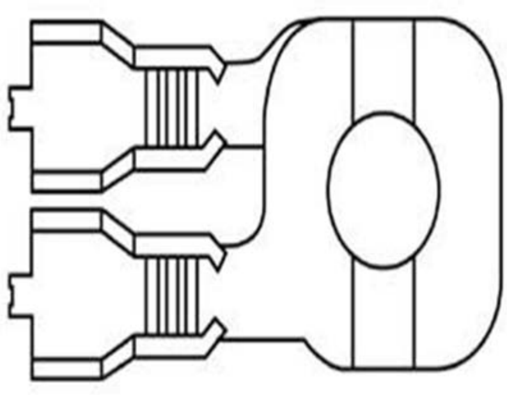
Connector Part Information		- LA-08-L1 - 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	ZZ026C	Ground to Splice 2

Right Inner Frame Rail, Next to the Batteries


H-282
J-7, J-8, J-9,
J-10, J-11, J-12
J-141, J-142

4892315

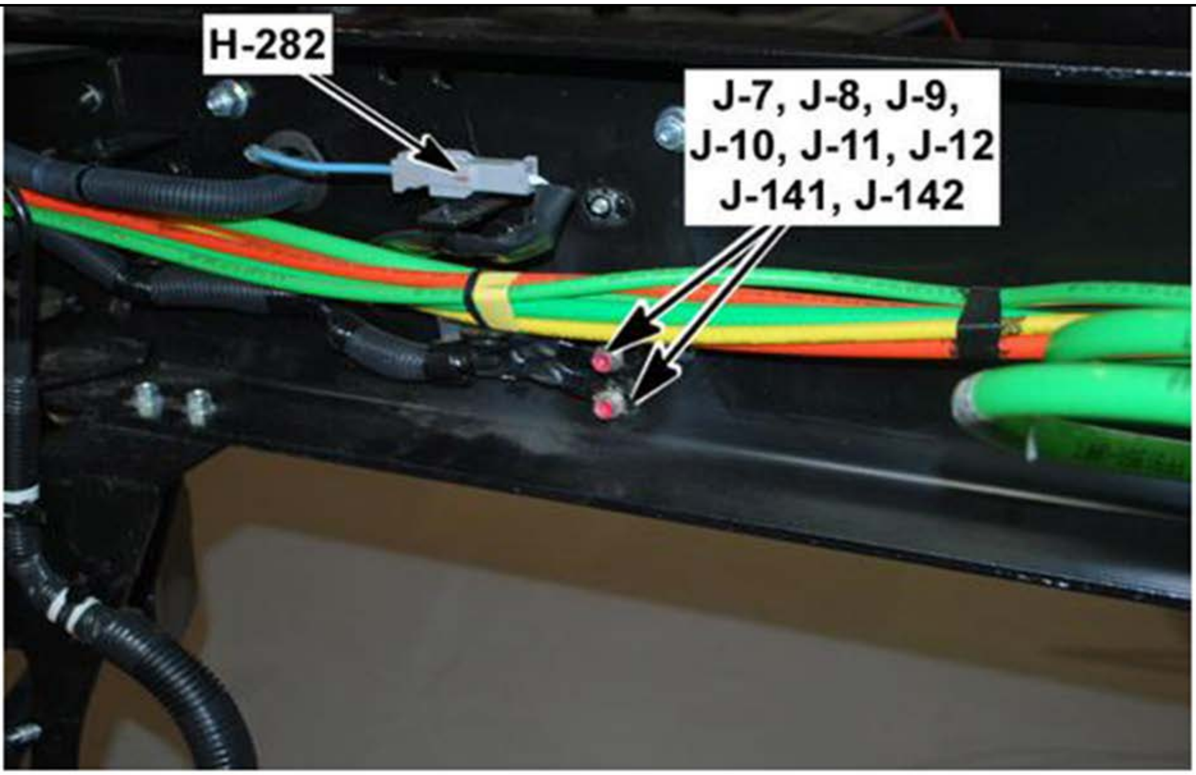
J-12 Ground



4892337

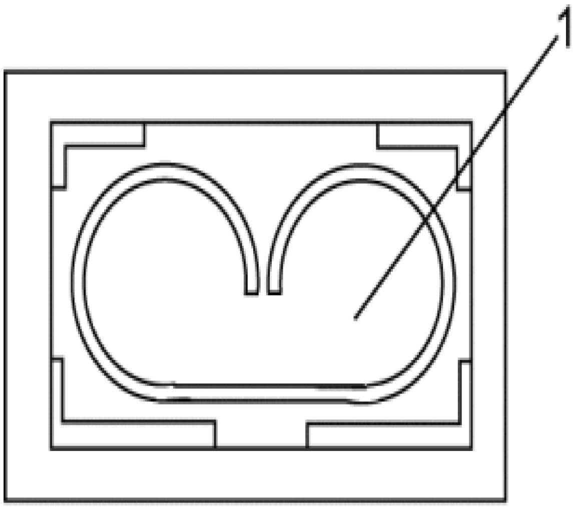
Connector Part Information		- LA-08-R1 - 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	ZZ023C	Ground to Splice 7

Right Inner Frame Rail, Next to the Batteries


H-282
J-7, J-8, J-9,
J-10, J-11, J-12
J-141, J-142

4892315

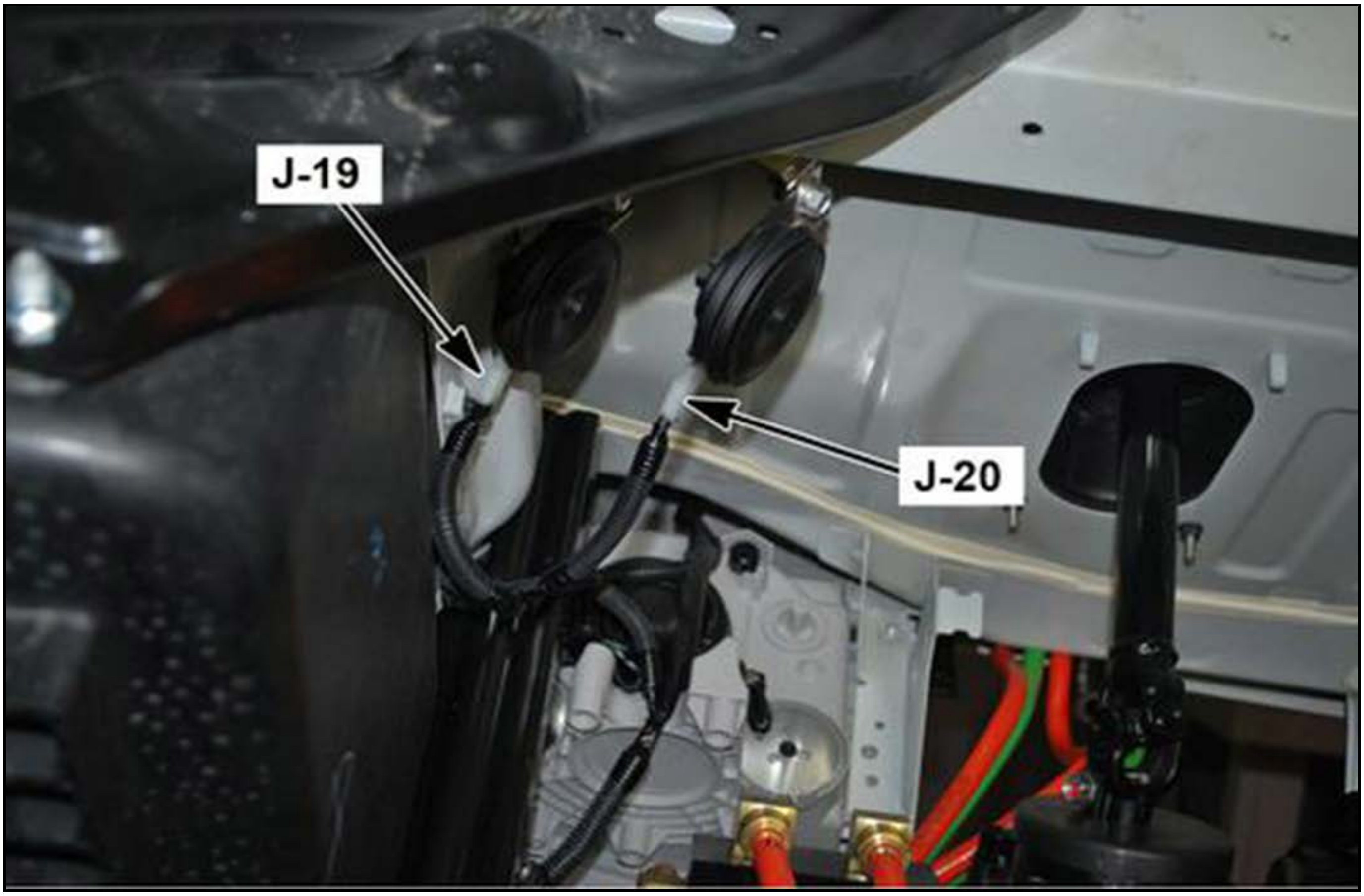
J-19 Horn (LH)



4892503

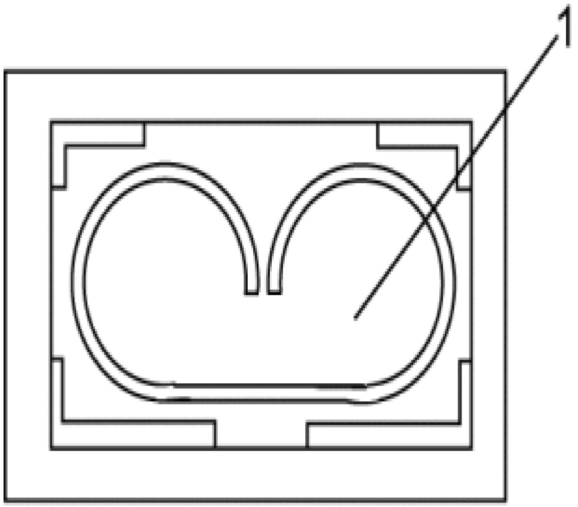
Connector Part Information		• 11506-1124 • 1-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/BLK	DA002B	Horn Supply Voltage from Horn Relay X-7

Under the Left Front of the Cab, Left of the Steering Column



4892509

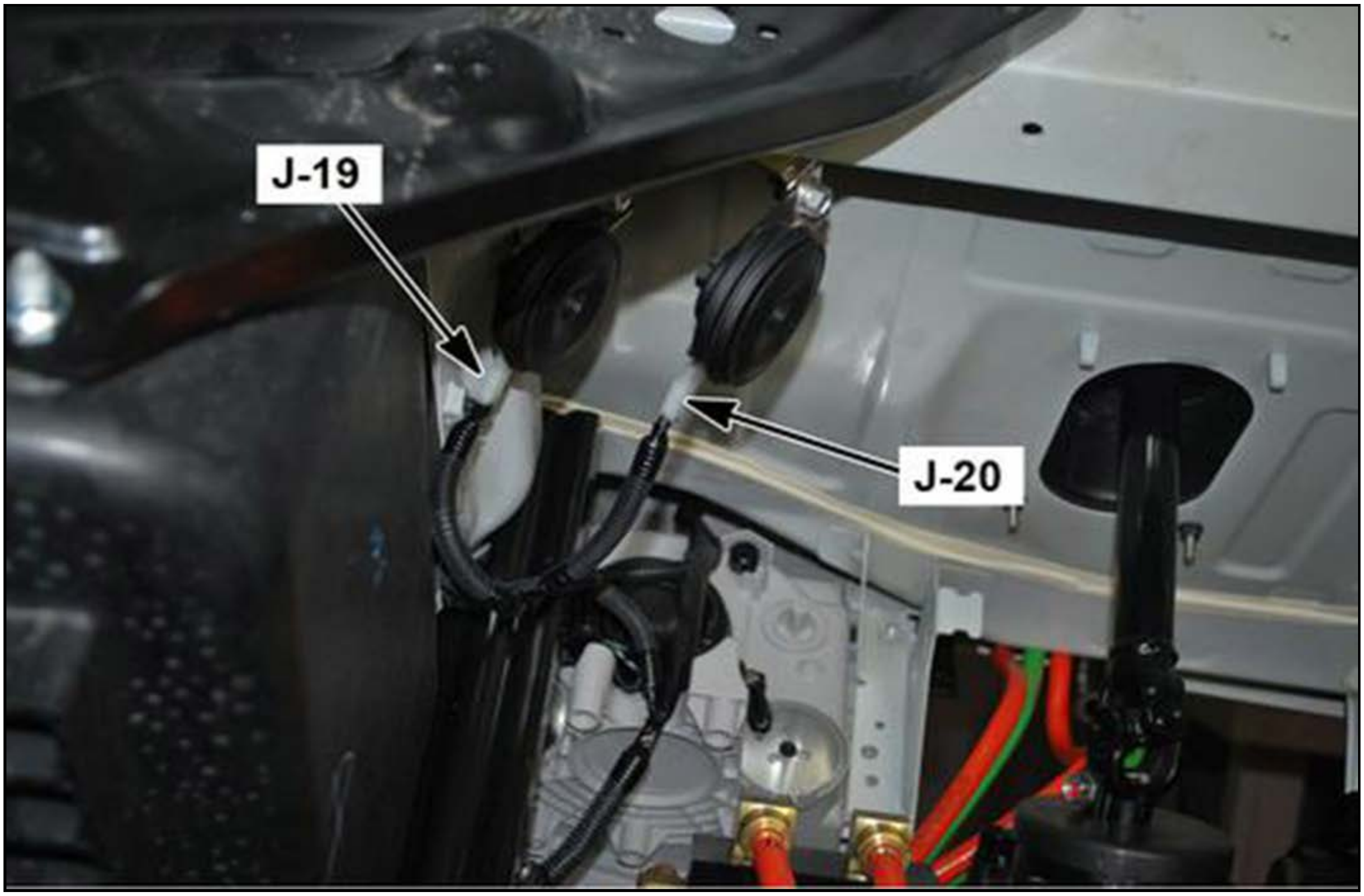
J-20 Horn (RH)



4892503

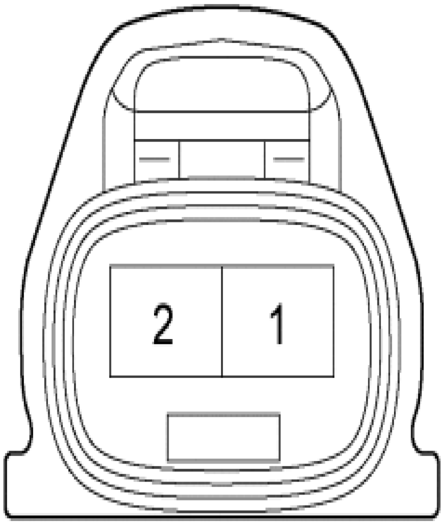
Connector Part Information	• 11506-1124 • 1-Way F (WHT)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/BLK	DA003B	Horn Supply Voltage from Horn Relay X-7

Under the Left Front of the Cab, Left of the Steering Column



4892509

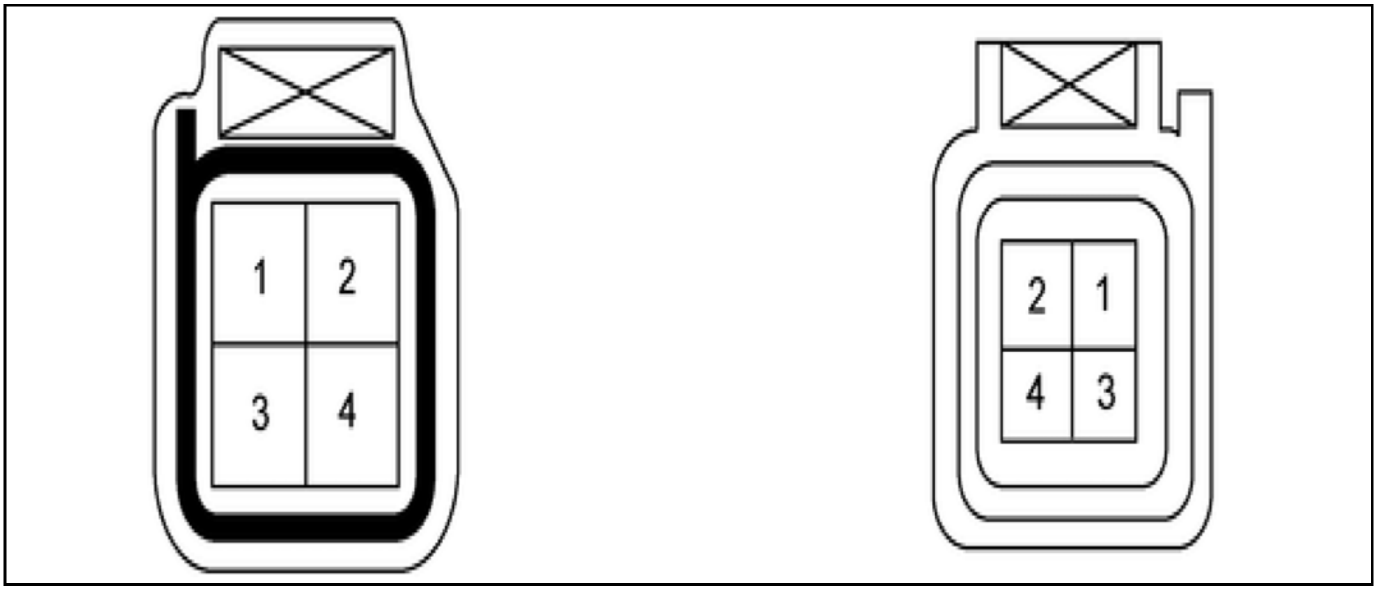
J-34 Exhaust Gas Temperature Sensor 2



4892594

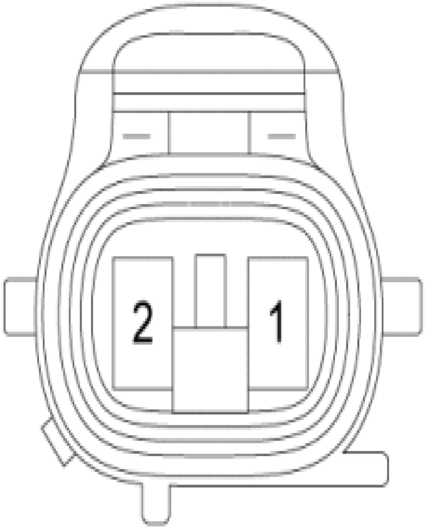
Connector Part Information		• 7382-7026-40 • 2-Way M (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	VIO/YEL	IC052I	Sensor Low Reference
2	RED	IC012I	Sensor Signal

Right Inner Frame Rail, Above the Front of the Diesel Particulate Filter (DPF)



4892020

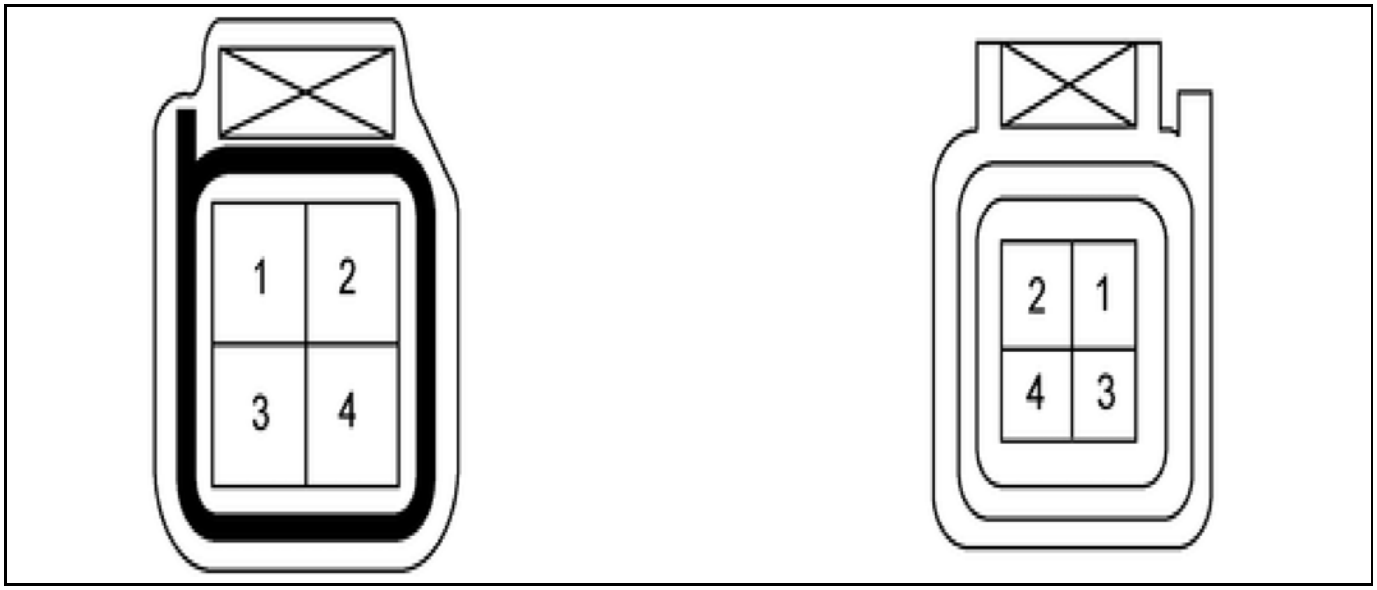
J-35 Exhaust Gas Temperature Sensor 1



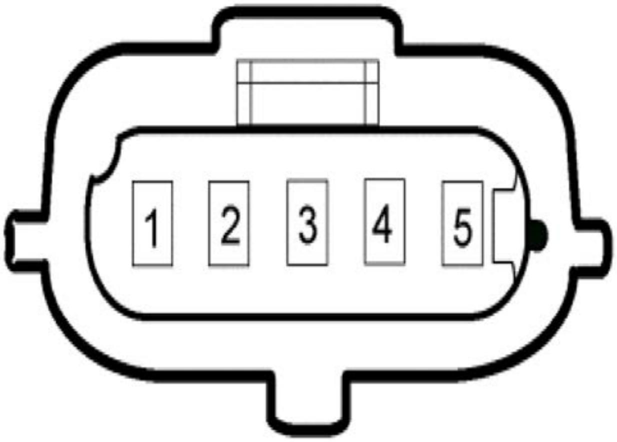
4892599

Connector Part Information		• 7382-7023-10 • 2-Way M (DK GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	VIO/GRN	IC080I	Sensor Low Reference
2	YEL/RED	IC079I	Sensor Signal

Right Inner Frame Rail, Above the Front of the Diesel Particulate Filter (DPF)

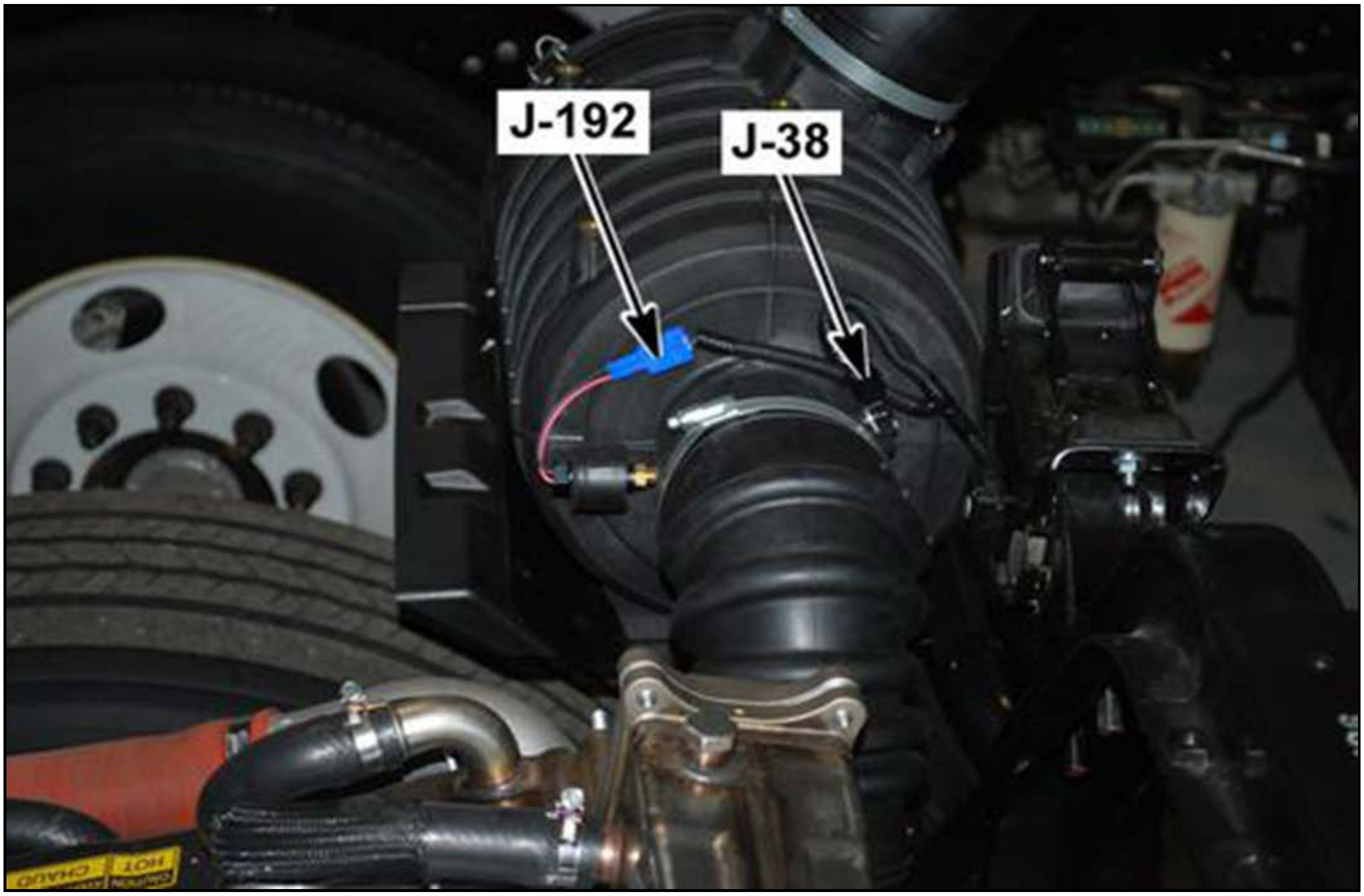


J-38 Mass Air Flow (MAF)/Intake Air Temperature (IAT) Sensor 1



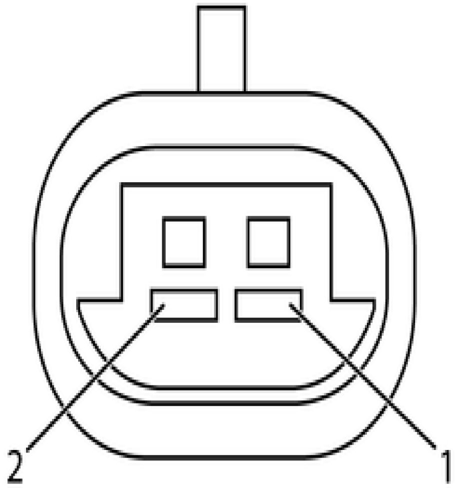
Connector Part Information		- 6189-1046 - 5-Way F (BLK)	
Pin	Wire Color	Circuit Number	Function
1	RED/WHT	IC034K	Battery Voltage from Fuse F-33
2	BLK	IC027K	MAF Sensor Low Reference
3	WHT	IC026K	MAF Sensor Signal
4	BLU/BLK	IC068K	IAT Sensor 1 Signal
5	BLU/RED	IC096K	IAT Sensor 1 Low Reference

Outlet Side of the Air Cleaner Housing


J-192
J-38
CAUTION
HOT
CHAUD

4892607

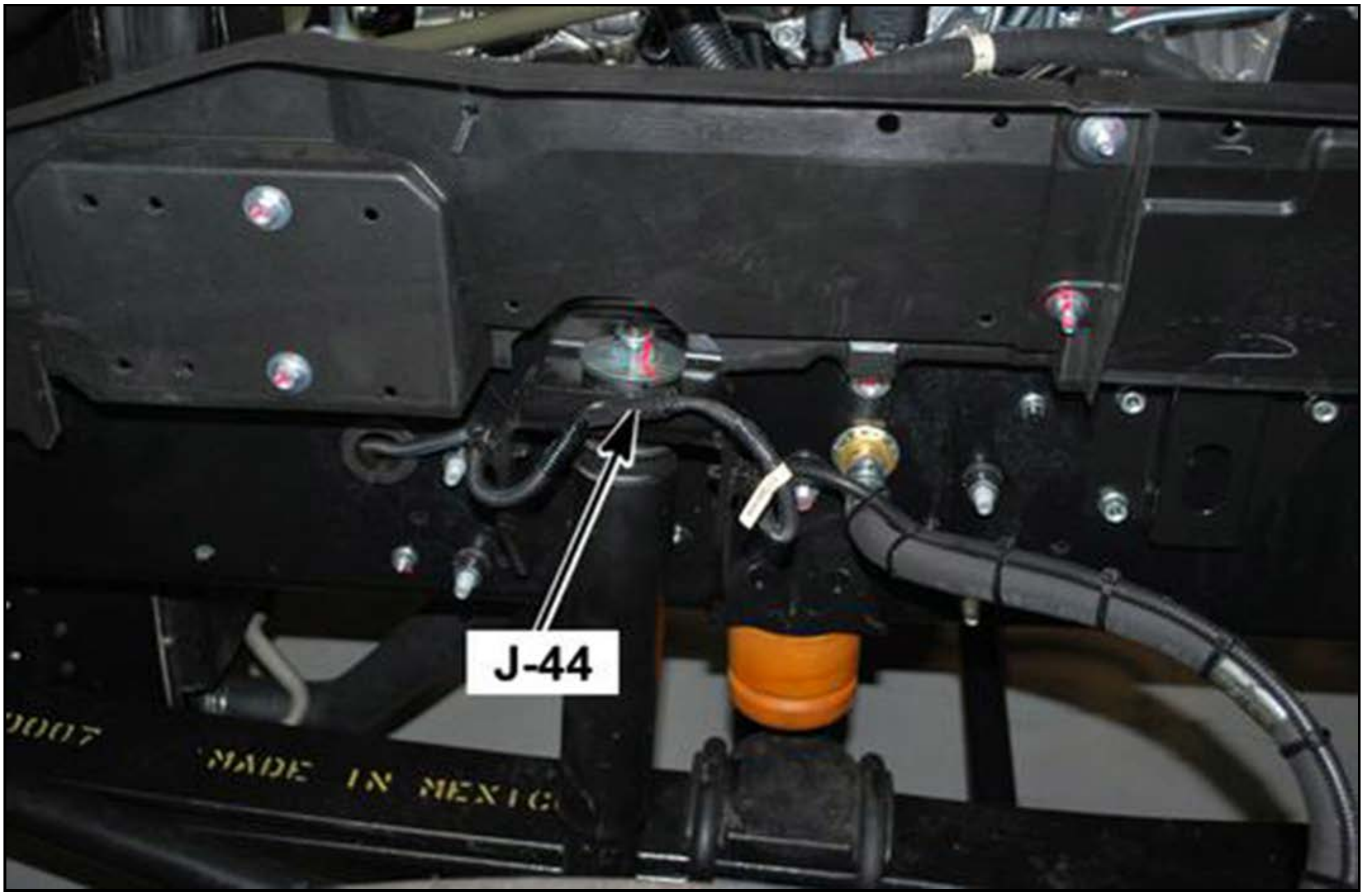
J-44 Wheel Speed Sensor Front (LH)



4892701

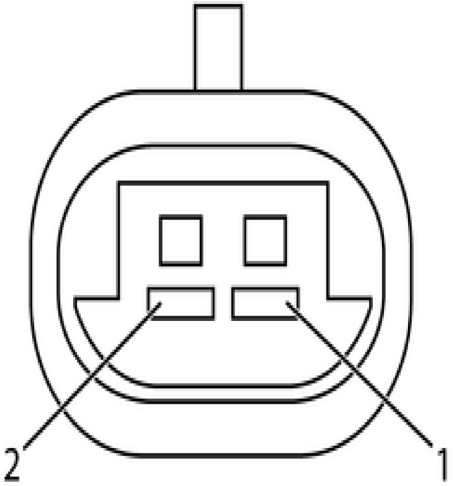
Connector Part Information		- 15355466 - 2-Way M (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT/BLU	BB106C	Sensor Signal
2	BLK/BLU	BB107C	5 Volt Reference

Left Front Wheel Well, Top of the Shock


J-44
MADE IN MEXIC

4892702

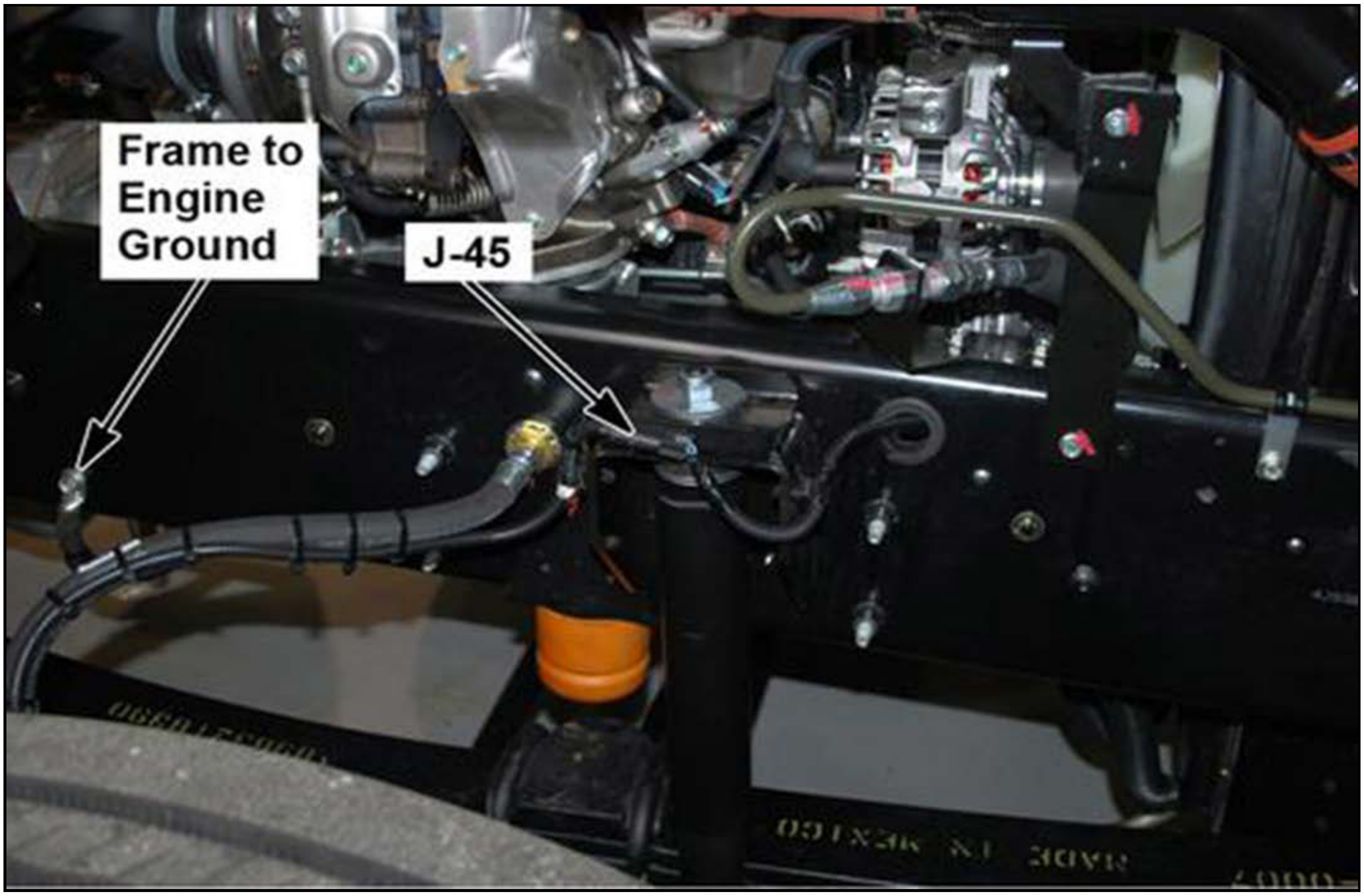
J-45 Wheel Speed Sensor Front (RH)



4892701

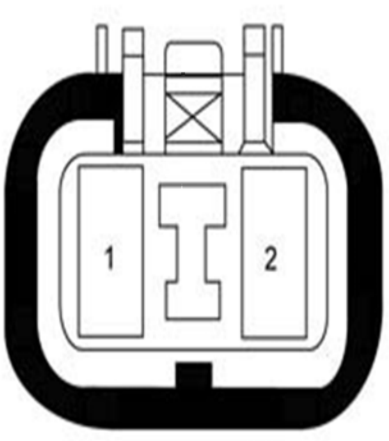
Connector Part Information		• 15355466 • 2-Way M (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU/WHT	BB111L	Sensor Signal
2	BLU	BB112L	5 Volt Reference

Right Wheel Well, Top of the Shock


Frame to Engine Ground
J-45

4892706

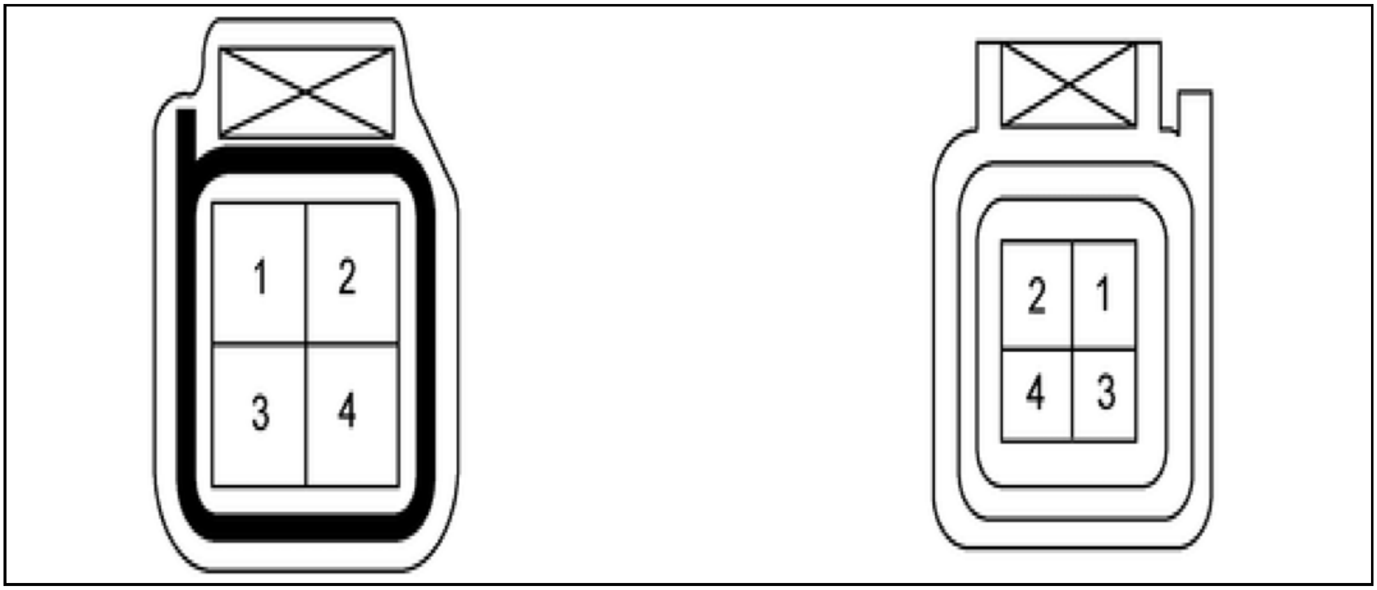
J-59 Exhaust Brake Solenoid Valve



4892710

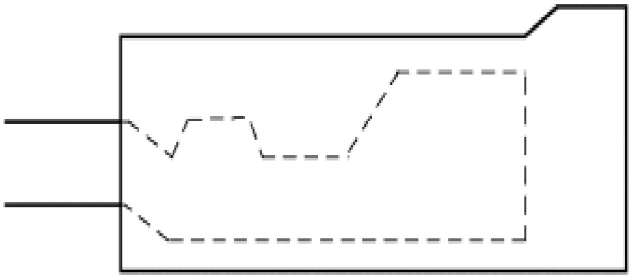
Connector Part Information		- 7323-8520-40 - 2-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/WHT	IC031I	Ignition Voltage from Fuse F-33, Fuse/Relay Center
2	WHT/GRN	IC076I	Exhaust Brake Solenoid Valve Control to ECM

Right Inner Frame Rail, Above the Front of the Diesel Particulate Filter (DPF)



4892020

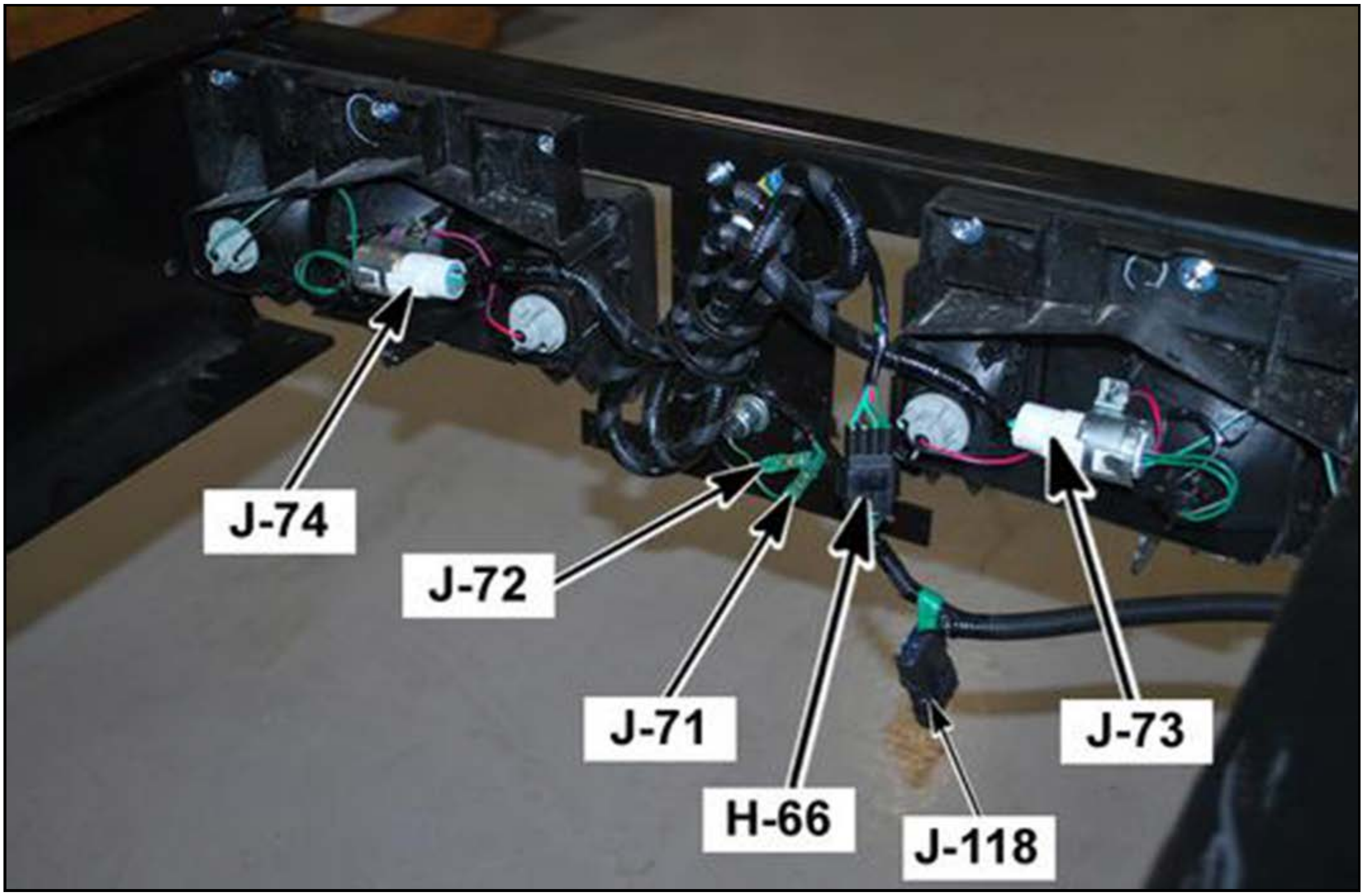
J-71 License Plate Lamp



4892712

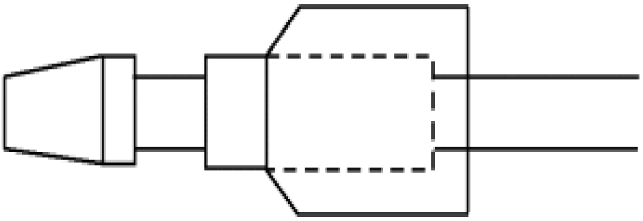
Connector Part Information		• 7320-1154 • 1-Way F (GRN)	
Pin	Wire Color	Circuit Number	Function
1	GRN/RED	BA04	Fuse F-27 Voltage (Headlamp Switch ON)

At the Rear of the Frame, Near the License Plate Frame


J-74
J-72
J-71
H-66
J-118
J-73

4891907

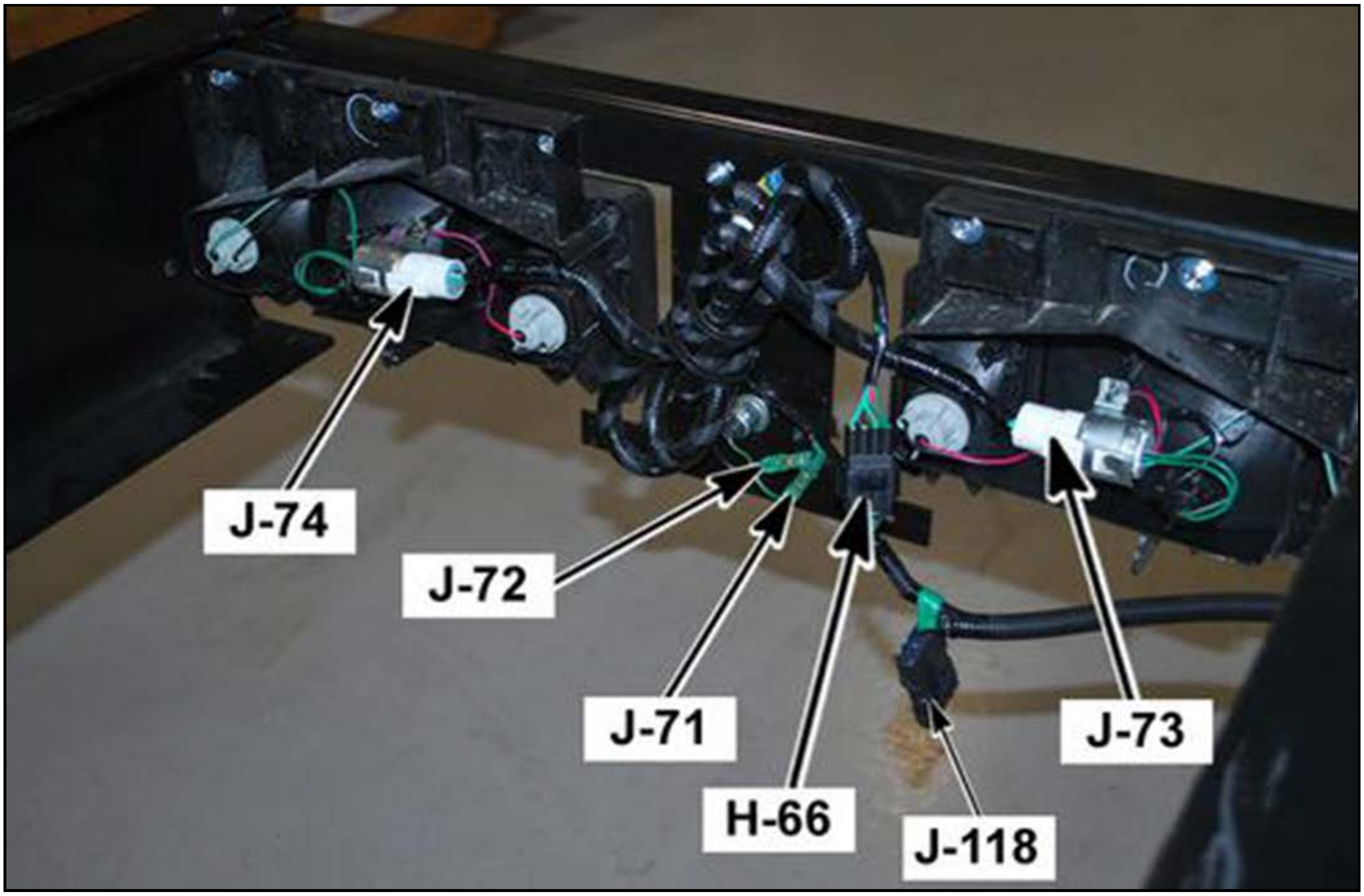
J-72 License Plate Lamp



4892714

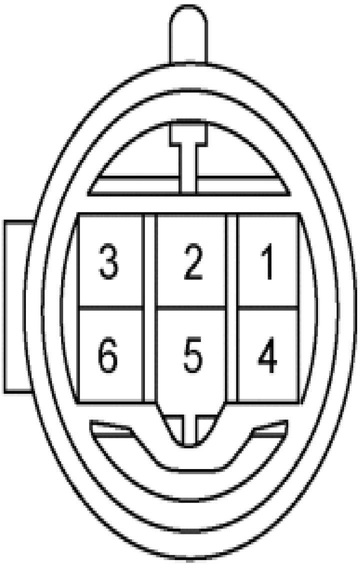
Connector Part Information		- 7320-8017 - 1-Way M (GRN)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	BX17	Ground to Splice 6 (J-9 and J-7 Ground)

At the Rear of the Frame, Near the License Plate Frame


J-74
J-72
J-71
H-66
J-118
J-73

4891907

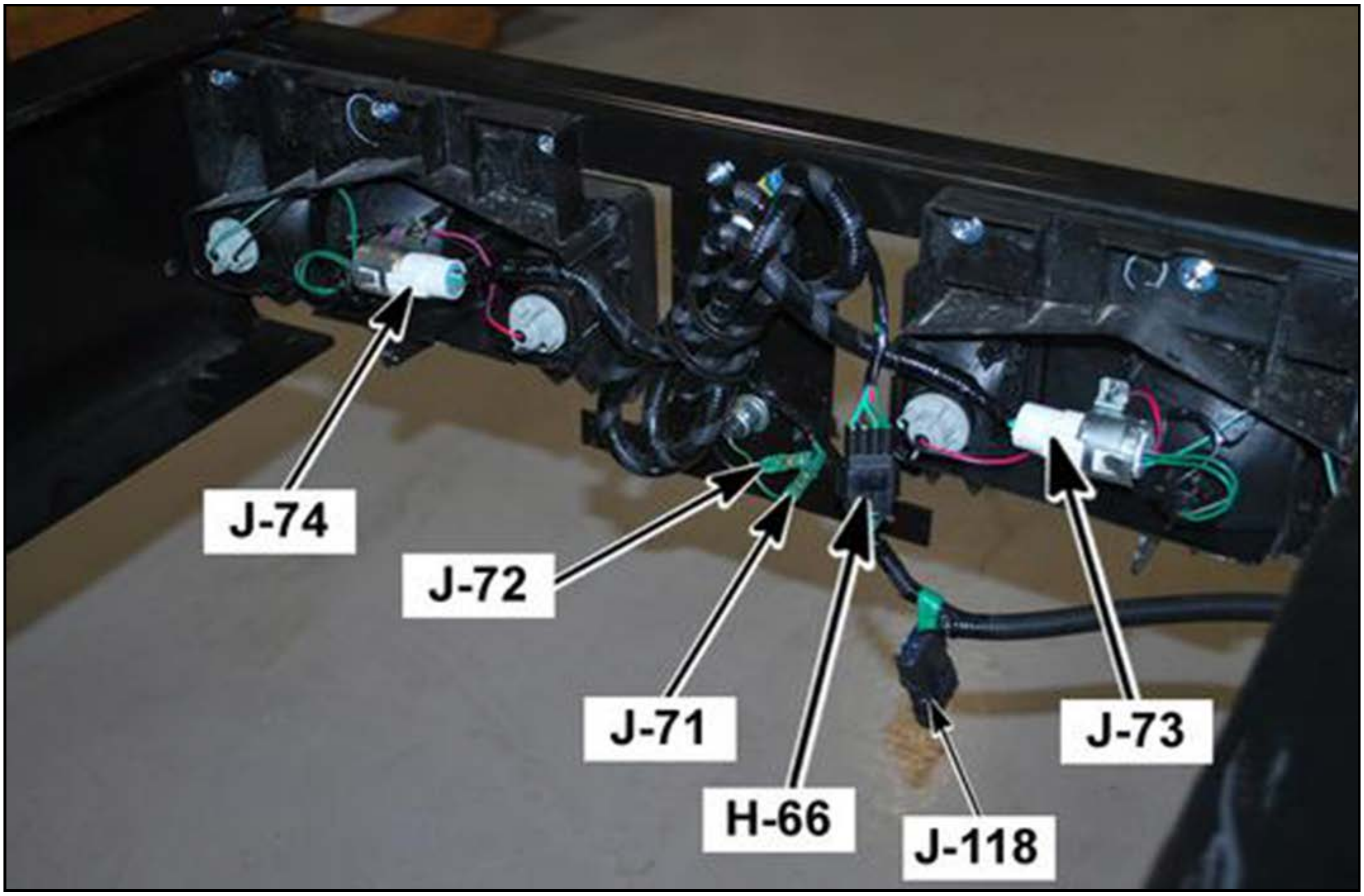
J-73 Rear Combination Lamp (LH)



4892716

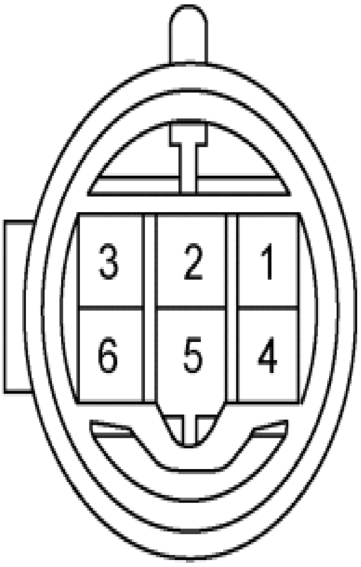
Connector Part Information		- 7118-3460 - 6-Way M (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/RED	BA02	Fuse F-27 Voltage (Headlamp Switch ON), Marker Lamp
2	GRN	CA02	Switched Output Voltage from X-1 Stop Lamp Relay
3	GRN/BLK	JA14	Turn Signal Lamp Supply Voltage
4	—	—	Not Used
5	RED/BLU	KA12	Backup Lamp Supply Voltage from Fuse A-4
6	BLK	BX02	Ground to Splice 6 (J-9 and J-7 Ground)

At the Rear of the Left Frame Rail, Under the Left Tail Lamp Assembly Cover


J-74
J-72
J-71
H-66
J-118
J-73

4891907

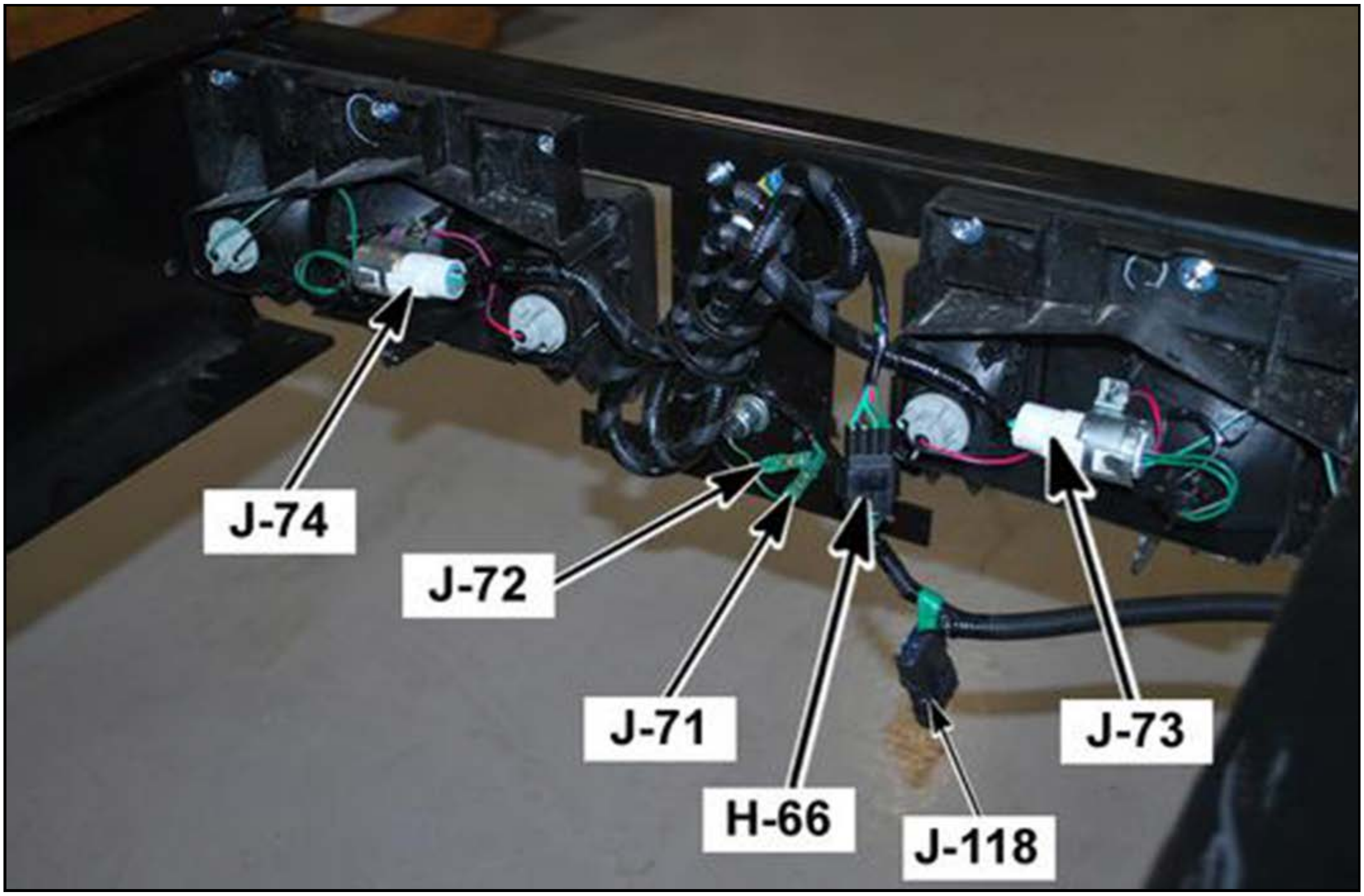
J-74 Rear Combination Lamp (RH)



4892716

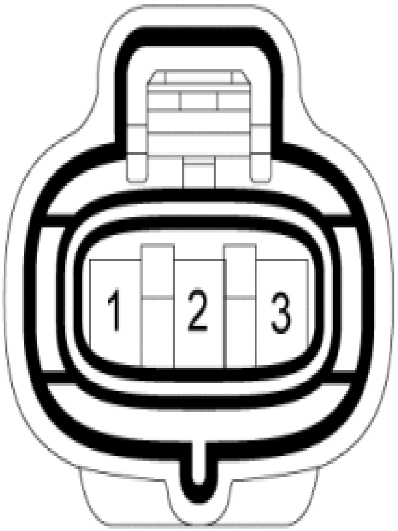
Connector Part Information		• 7118-3460 • 6-Way M (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/RED	BA01	Fuse F-27 Voltage (Headlamp Switch ON), Marker Lamp
2	GRN	CA01	Switched Output Voltage from X-1 Stop Lamp Relay
3	GRN/WHT	JA15	Turn Signal Lamp Supply Voltage
4	RED/BLU	KA07	Backup Alarm Supply Voltage from Fuse A-4
5	RED/BLU	KA08	Backup Lamp Supply Voltage from Fuse A-4
6	BLK	BX01	Ground to Splice 6 (J-9 and J-7 Ground)

At the Rear of the Right Frame Rail, Under the Right Tail Lamp Assembly Cover


J-74
J-72
J-71
H-66
J-118
J-73

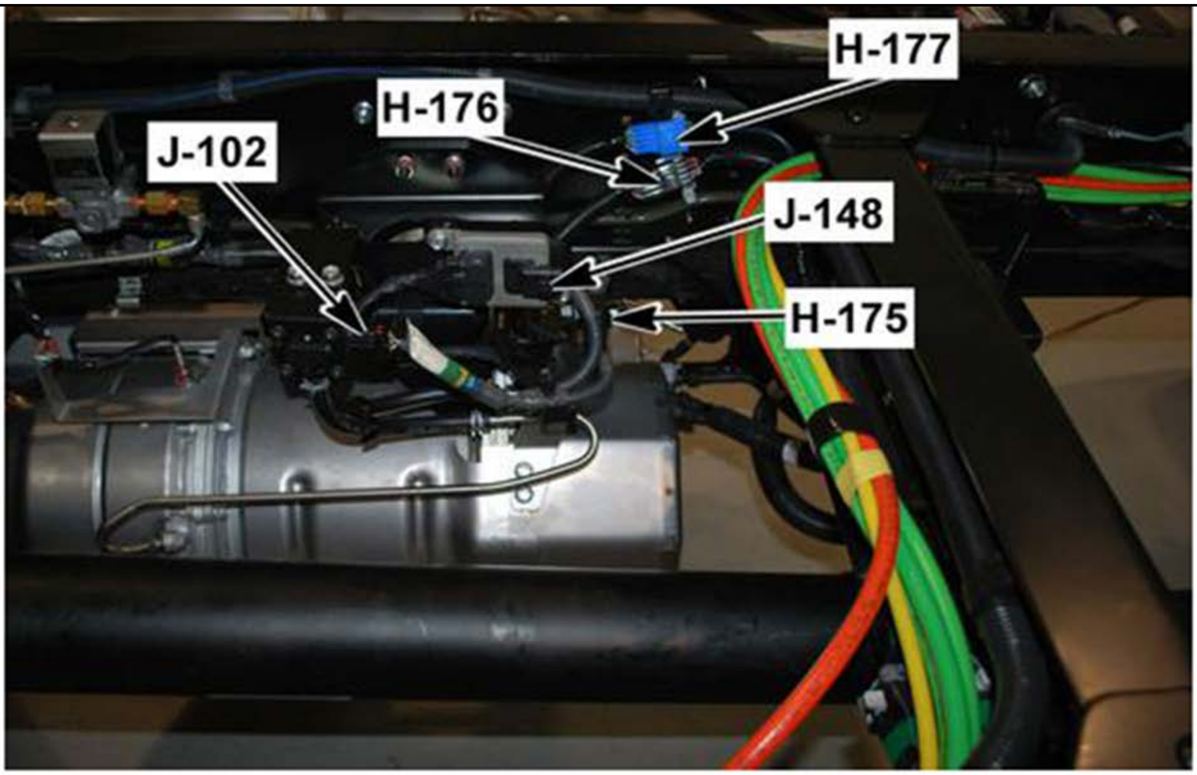
4891907

J-102 Exhaust Differential Pressure Sensor



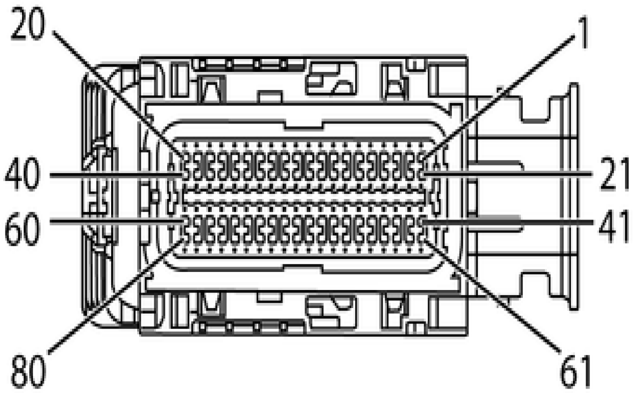
Connector Part Information		• 6189-0099 • 3-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	VIO/WHT	IC56	Sensor Low Reference
2	GRN/YEL	IC55	Sensor Signal
3	WHT/ORN	IC54	Sensor 5 Volt Reference 3

Right Inner Frame Rail, Above the Diesel Particulate Filter (DPF)


H-177
H-176
J-102
J-148
H-175

4892049

J-105 Engine Control Module (ECM)

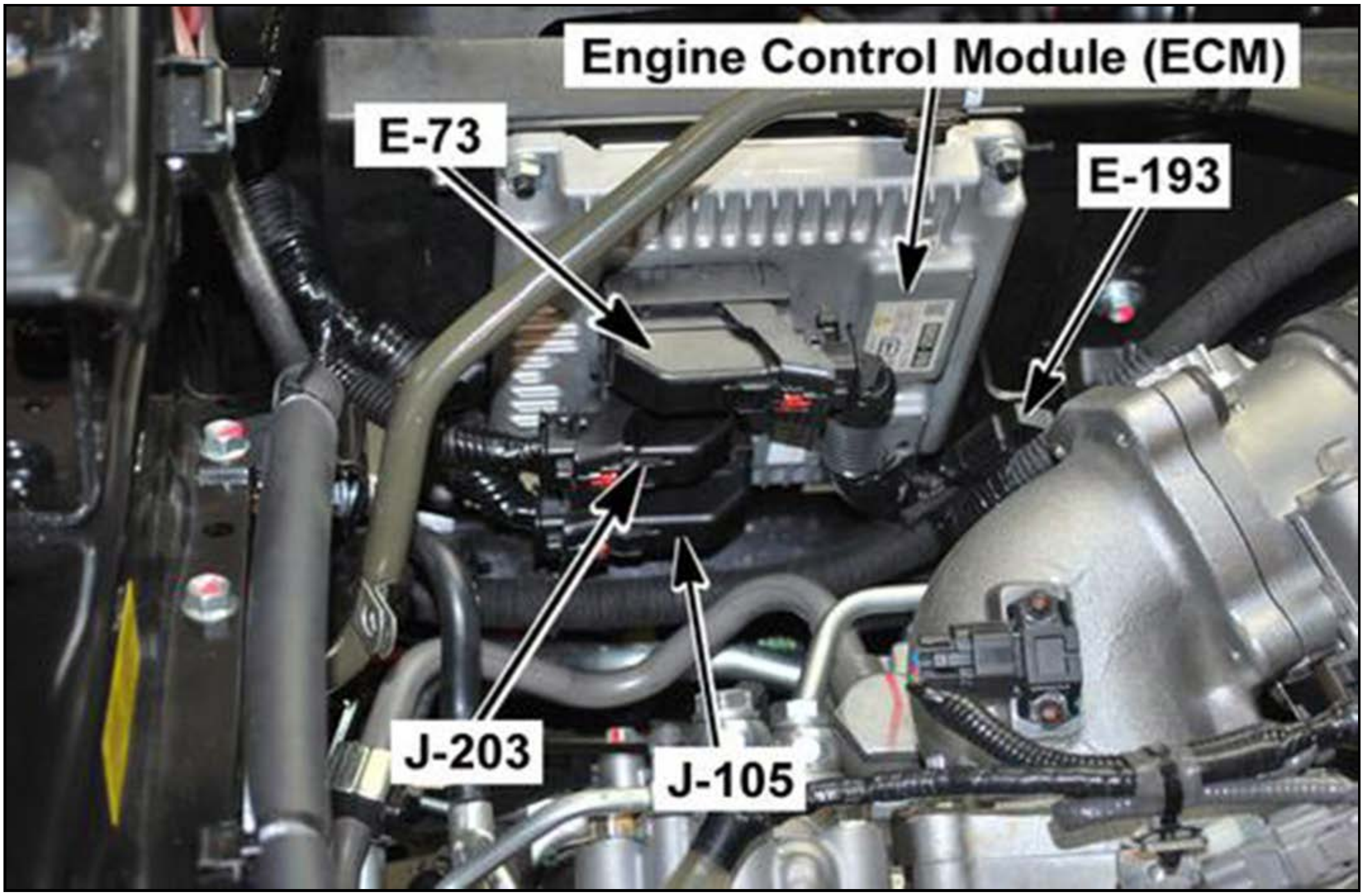

20
1
40
21
60
41
80
61

4892719

Connector Part Information		• 34566-0803 • 80-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU	IC037C	PTO Remote Throttle Sensor 5 Volt Reference 3 Voltage
2–3	—	—	Not Used
4	WHT/BLK	IC019C	X-17 Starter Relay Coil Control
5	BRN	IC167C	PTO Cab Control Disable Switch Signal
6	—	—	Not Used
7	GRN	IC004C	APP Sensor 2 5 Volt Reference 2 Voltage
8	BRN	TF056C	Fuel Level Gauge Control
9	BLU	IC006C	APP Sensor 2 Low Reference
10	BLU/WHT	TF017C	CAN 1 High Signal (J1939)
11–12	—	—	Not Used
13	PNK/GRN	IC173C	PTO Engage Relay Control
14	YEL	IC055C	Exhaust Differential Pressure Sensor Signal
15–17	—	—	Not Used
18	BLK	IZ020C	Ground to Splice 7 (J-10 and J-12 Ground)
19	RED	IC023C	APP Sensor 1 Signal
20	BLK	IZ023C	Ground to Splice 7 (J-10 and J-12 Ground)
21	WHT	IC033C	APP Sensor 1 5 Volt Reference 1 Voltage
22	ORN	IC054C	Exhaust Differential Pressure Sensor 5 Volt Reference 3 Voltage
23–25	—	—	Not Used
26	GRY/BLU	IC083C	Low Coolant Level Signal from Low Coolant Level Control Module
27	BLU/RED	IC039C	PTO Remote Throttle Sensor Low Reference
28	GRN/WHT	TF055C	CAN 2 High
29	BRN	IC056C	Exhaust Differential Pressure Sensor Low Reference
30	BLU	TF018C	CAN 1 Low Signal (J1939)
31	BLK	IC032C	APP Sensor 1 Low Reference
32	—	—	Not Used
33	ORN/BLU	IC008C	Glow Plug Lamp Control
34	YEL	IC038C	PTO Remote Throttle Sensor Signal
35–36	—	—	Not Used
37	LT GRN/RED	IC044C	Exhaust Brake Switch Signal
38	BLK	IZ022C	Ground to Splice 7 (J-10 and J-12 Ground)
39	YEL	IC005C	APP Sensor 2 Signal
40	BLK	IZ025C	Ground to Splice 7 (J-10 and J-12 Ground)
41	—	—	Not Used
42	ORN	IC011C	Battery Voltage from Fuse F-22 Voltage (Battery) from Fuse/Relay Center
43–44	—	—	Not Used
45	RED/WHT	IC017C	Brake Switch Signal
46	BLK/ORN	IC001C	Ignition Voltage from Fuse F-20 in the Fuse/Relay Center
47	BLU/YEL	IC064C	ECM Main Relay Coil Control
48	GRN	IC016C	Stoplamp Switch Signal
49–50	—	—	Not Used
51	PNK	IC275C	PTO Engage Switch Signal

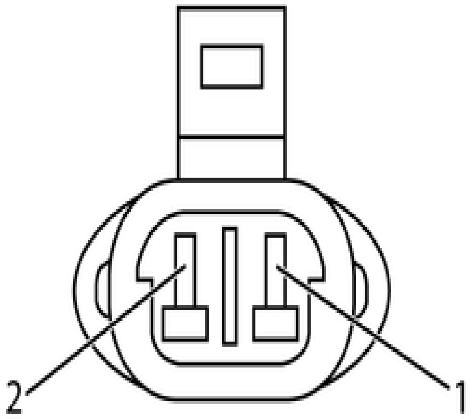
Connector Part Information		• 34566-0803 • 80-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
52	GRY/RED	IC165C	Remote PTO Set Speed A Switch Signal
53	RED/BLK	IC170C	Remote PTO Resume Switch Signal
54	BLU/WHT	IC140C	DPF Regeneration Switch Signal
55	—	—	Not Used
56	BLK	IZ031C	Ground to Splice 7 (J-10 and J-12 Ground)
57	GRY/BLU	IC158C	Cruise Main Switch Signal
58	RED/WHT	IC500C	Ignition Voltage from ECM Main Relay
59	—	—	Not Used
60	RED/WHT	IC063C	Ignition Voltage from ECM Main Relay
61	BLK	IZ024C	Ground to Splice 7 (J-10 and J-12 Ground)
62–64	—	—	Not Used
65	YEL/BLK	IC010C	MIL Lamp Control
66	BLK/ORN	IC501C	Ignition Voltage from Fuse F-20 in the Fuse/Relay Center
67	BLU/YEL	IC066C	ECM Main Relay Coil Control
68	BLK/WHT	IC069C	Start Signal from Ignition Switch
69	RED/GRN	IC168C	PTO Brake/Clutch Override Switch Signal
70	GRY	IC277C	Cruise Set/Coast Switch Signal
71	RED/BLU	IC166C	Remote PTO Set Speed B Switch Signal
72	PNK/BLU	IC276C	Cruise Resume/Accel Switch Signal
73	—	—	Not Used
74	BLK/WHT	IC172C	PTO Feedback Switch Signal
75	BRN/YEL	IC098C	A/C Signal
76	BLK	IZ021C	Ground to Splice 7 (J-10 and J-12 Ground)
77	RED/GRN	IC171C	Remote PTO Set Switch Signal
78	RED/WHT	IC062C	Ignition Voltage from ECM Main Relay
79	PNK/BLK	IC169C	PTO Engine Shutdown Switch Signal
80	RED/WHT	IC067C	Ignition Voltage from ECM Main Relay

Left Side of the Engine, in Front of the Rear Cab Mount


Engine Control Module (ECM)
E-73
E-193
J-203
J-105

4891795

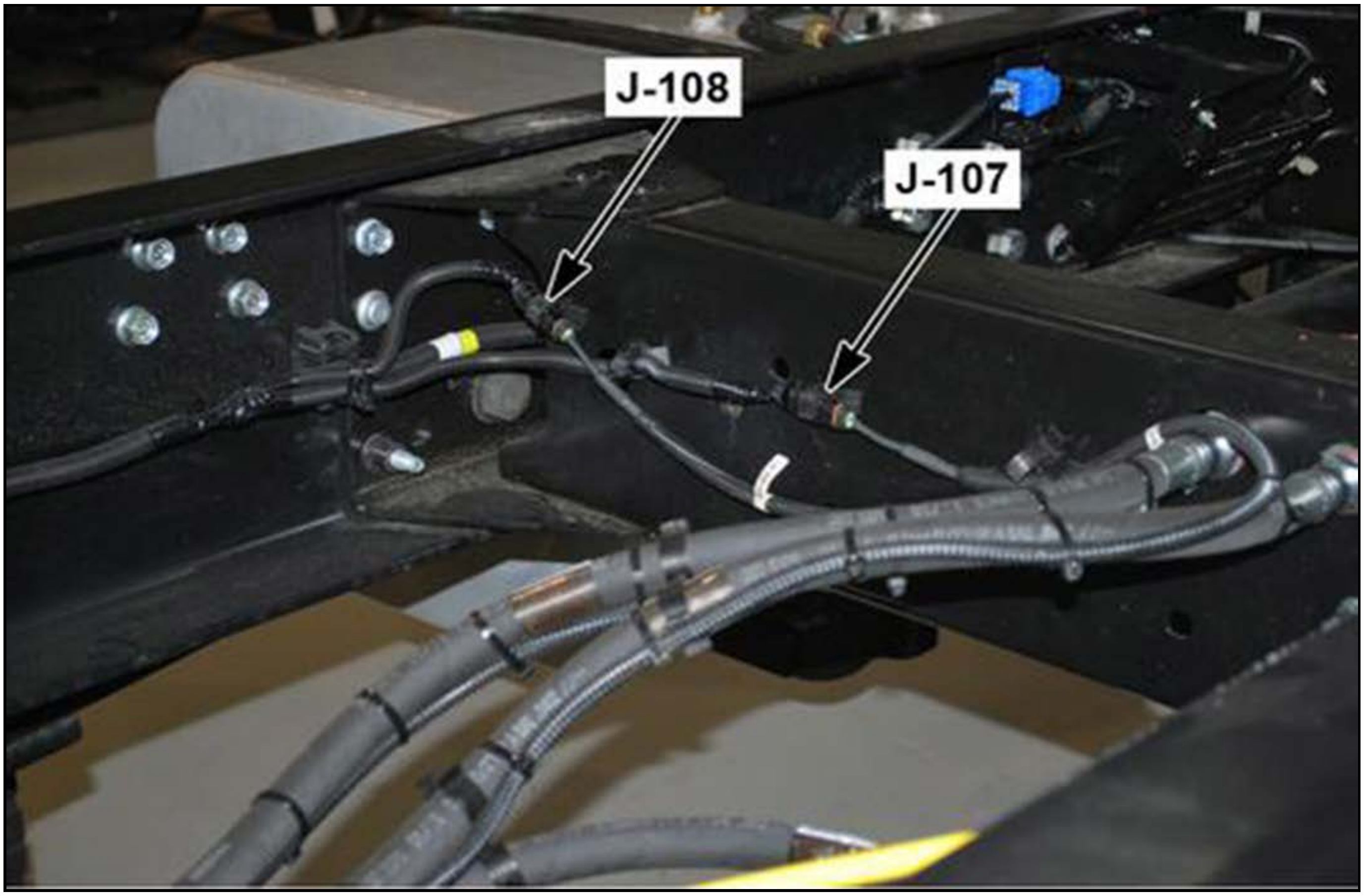
J-107 Rear Wheel Speed Sensor (RH)



4892722

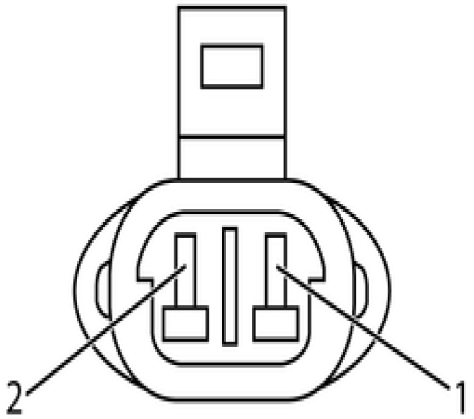
Connector Part Information		- 12162852 - 2-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/WHT	BB121D	Right Rear Wheel Speed Sensor 5 Volt Reference
2	GRN	BB122D	Right Rear Wheel Speed Sensor Signal

On the Frame Crossmember, in Front of the Rear Axle



4892725

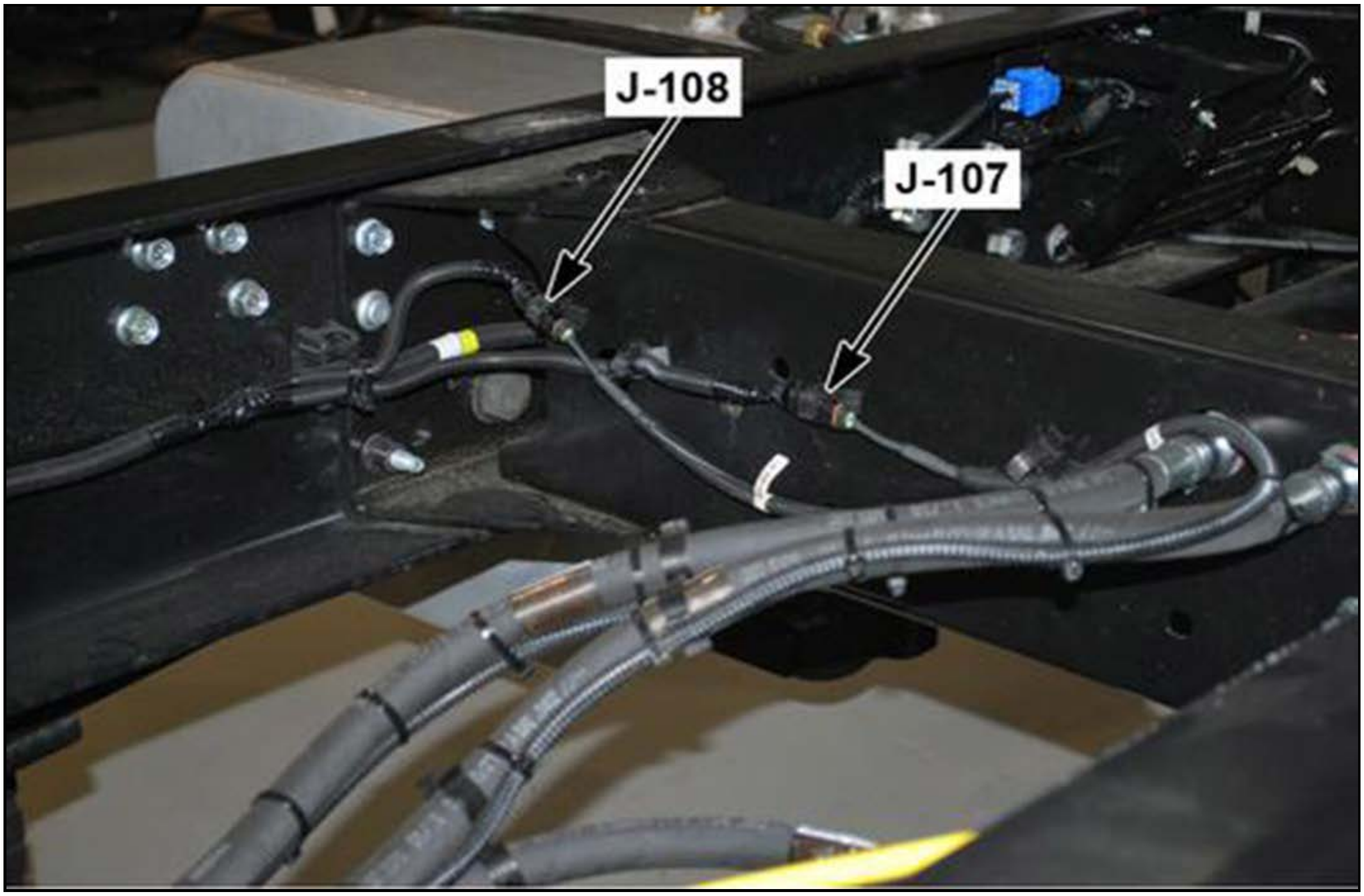
J-108 Rear Wheel Speed Sensor (LH)



4892722

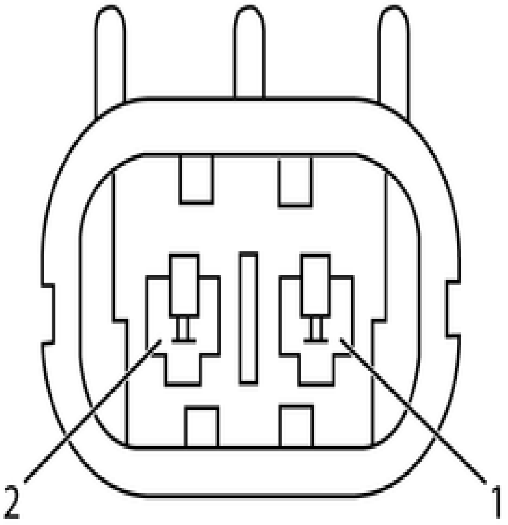
Connector Part Information	• 12162852 • 2-Way F (BLK)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT/RED	BB116D	Left Rear Wheel Speed Sensor 5 Volt Reference
2	ORN/BLK	BB117D	Left Rear Wheel Speed Sensor Signal

On the Frame Crossmember, in Front of the Rear Axle



4892725

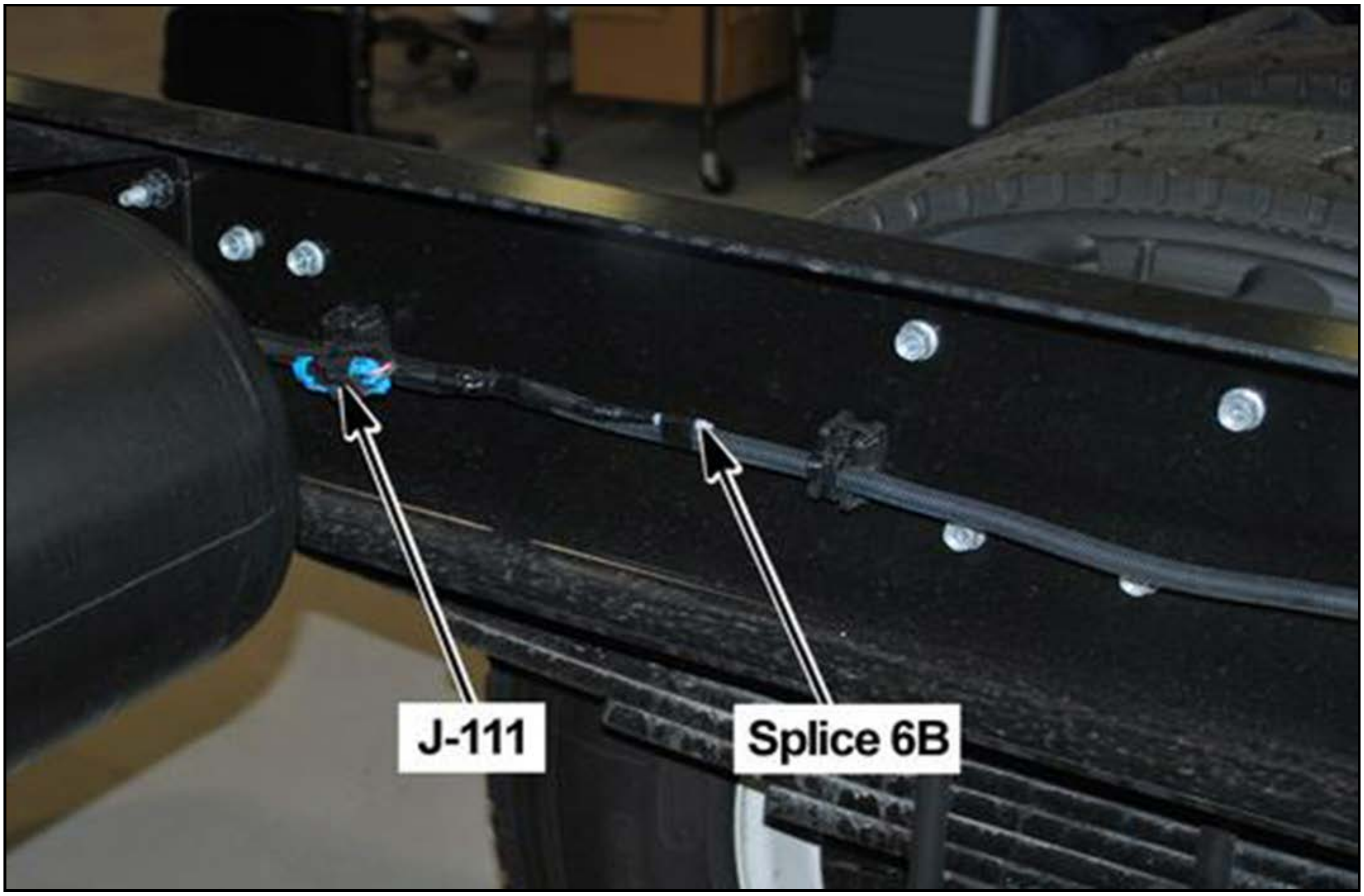
J-111 Backup Alarm



4892730

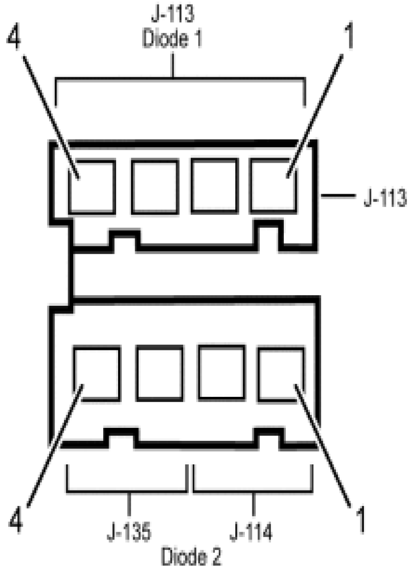
Connector Part Information	- 15300002 - 2-Way M (BLK)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/BLU	KA023D	Voltage from Fuse A-4 (In Reverse) from Fuse/Relay Center (Cab) (B-250 pin 8)
2	BLK BLU	KX001D	Ground to Splice 5 (J-9 and J-7 Ground)

Left Rear Frame Rail, Behind the Rear Axle



4892741

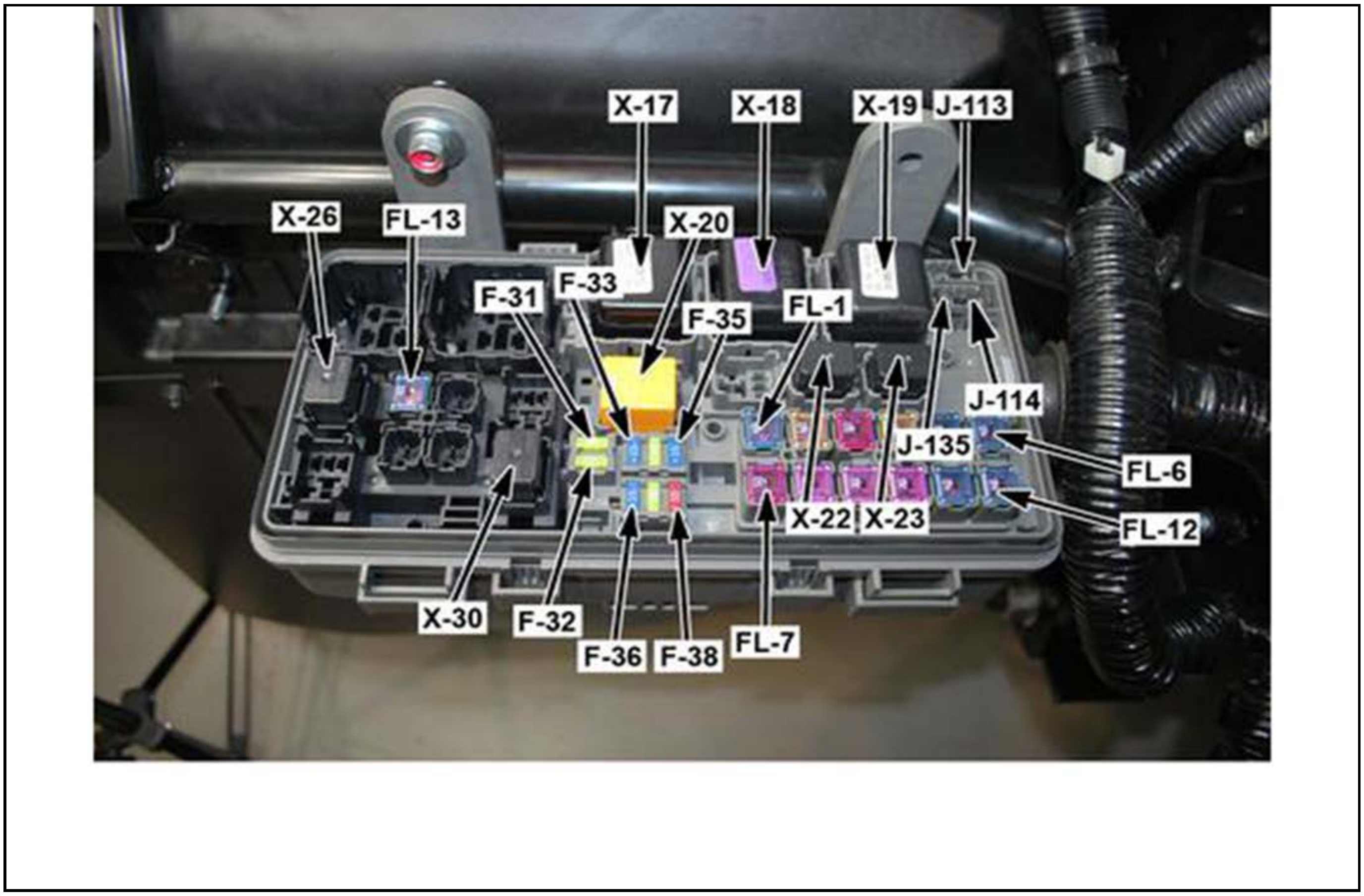
J-113 PTO Diode 1


J-113
Diode 1
4
1
J-113
4
1
J-135
J-114
Diode 2

4892754

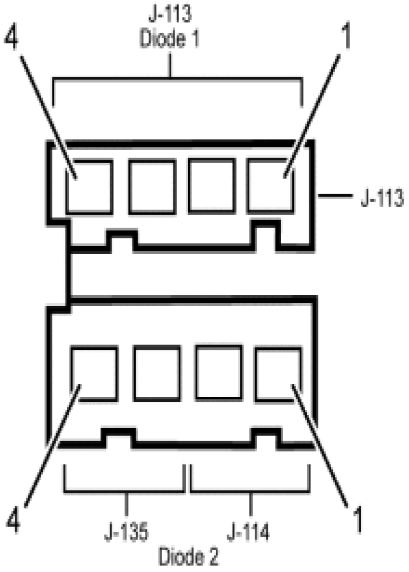
Connector Part Information		• 898030-7630 • Fuse/Relay Center	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU/YEL	IC095C	PTO Up/Down Switch Signal (In)
2	GRY	IC177C	PTO Up/Down Switch (Down - PTO Set) (Out)
3–4	—	—	Not Used

Left Outer Frame Rail, In the Fuse/Relay Center


X-17
X-18
X-19
J-113
X-26
FL-13
X-20
F-33
F-31
F-35
FL-1
J-114
J-135
FL-6
X-22
X-23
FL-12
X-30
F-32
F-36
F-38
FL-7

4892760

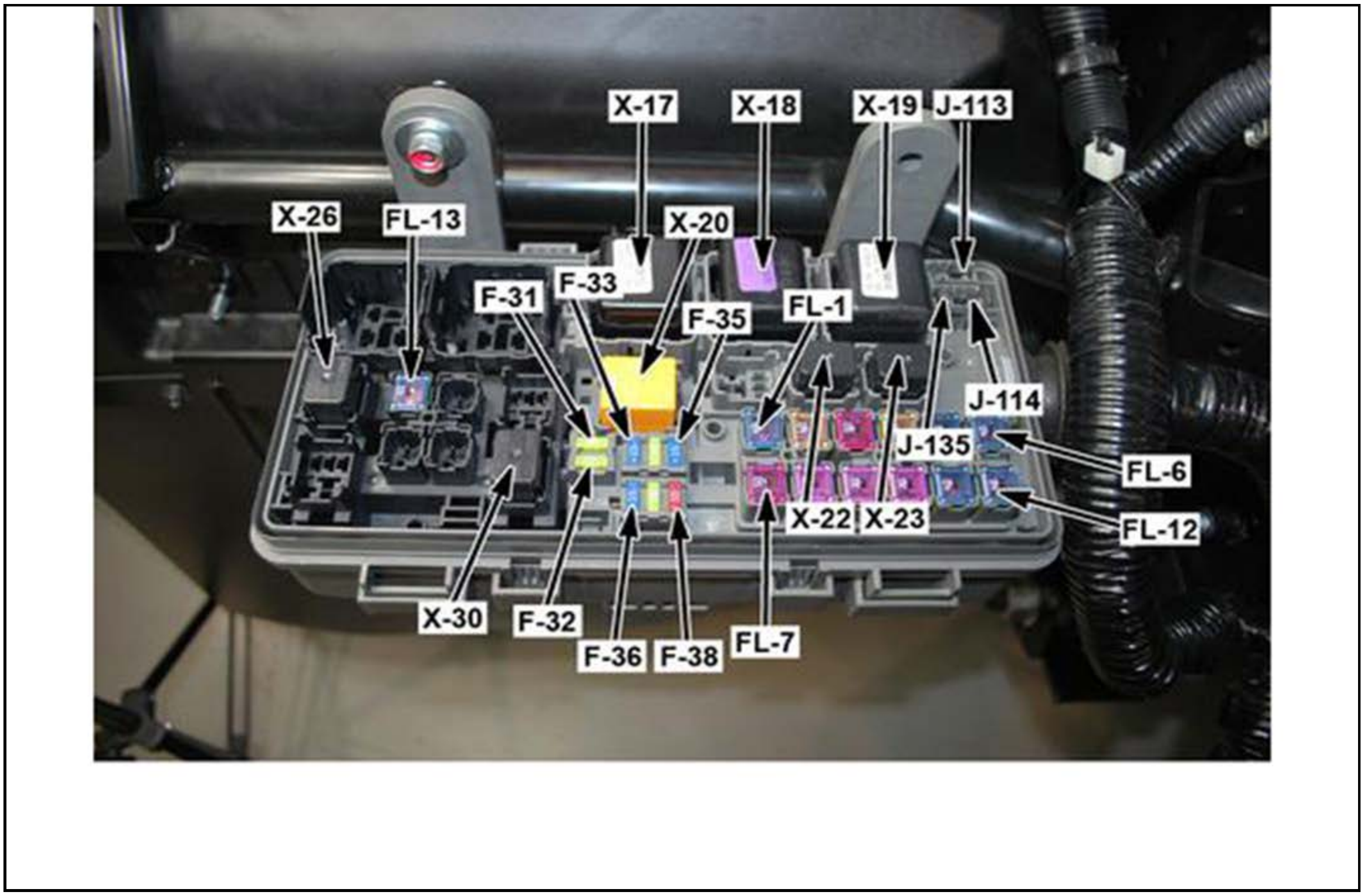
J-114 A/C Compressor Clutch Diode 2


J-113
Diode 1
4
1
J-113
4
J-135
J-114
Diode 2
1

4892754

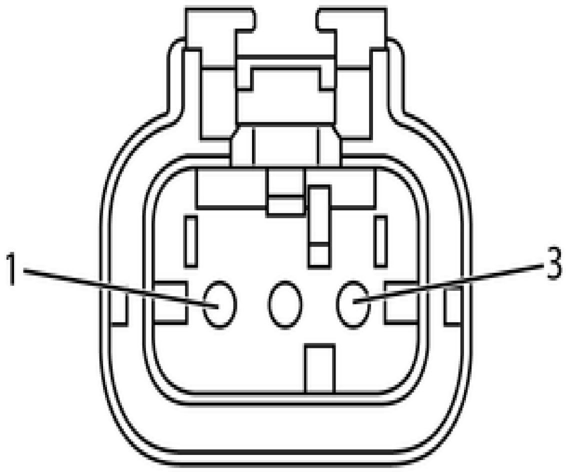
Connector Part Information		• 898030-7630 • Fuse/Relay Center	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	HX005C	Ground to Splice 5 (J-7 and J-9 Ground)
2	BRN/YEL	HA068C	A/C Pressure Switch Signal
3–4	—	—	Not Used

Left Outer Frame Rail, In the Fuse/Relay Center


X-17
X-18
X-19
J-113
X-26
FL-13
X-20
F-33
F-31
F-35
FL-1
J-114
J-135
FL-6
X-22
X-23
FL-12
X-30
F-32
F-36
F-38
FL-7

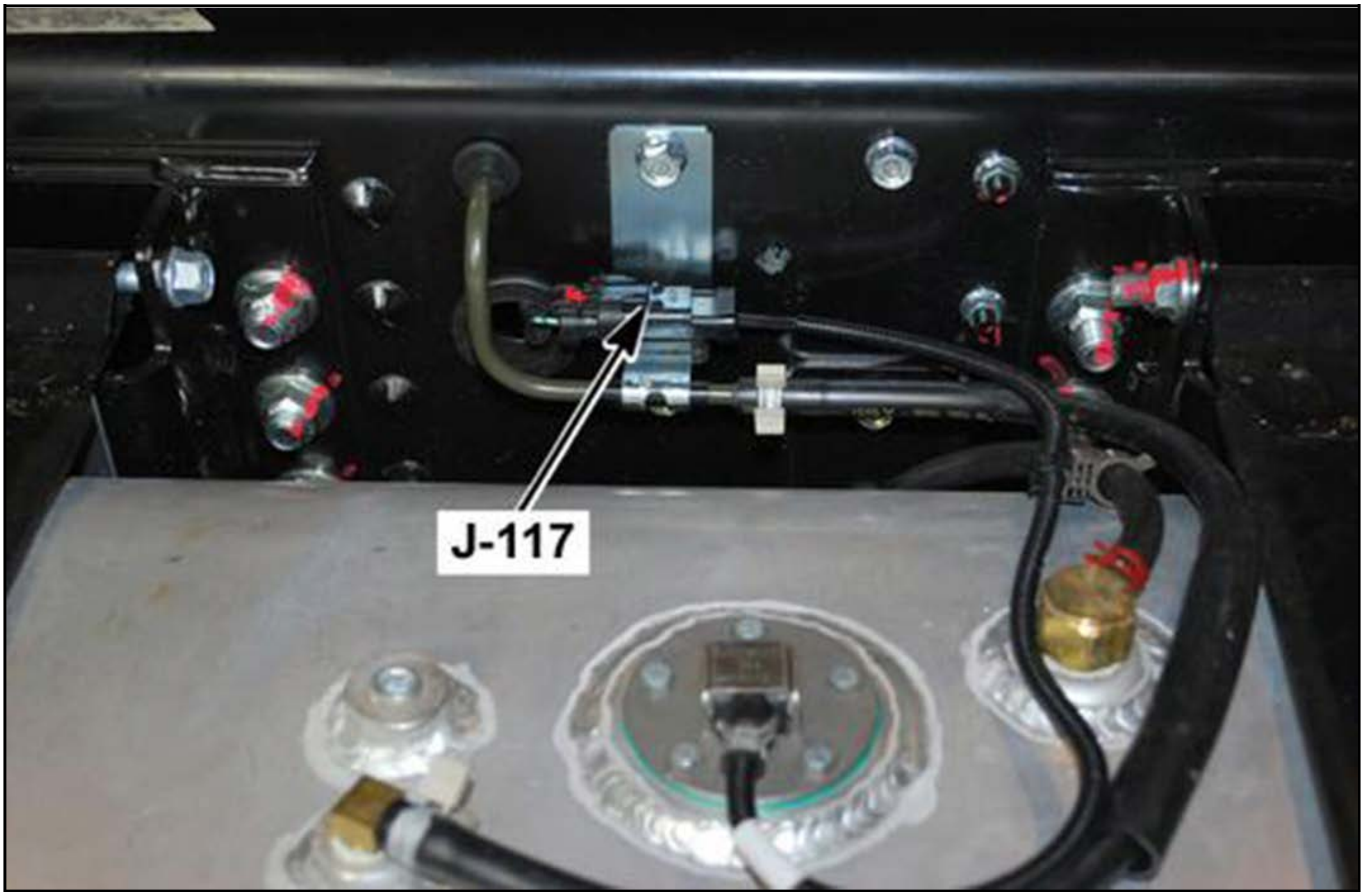
4892760

J-117 Fuel Tank Unit



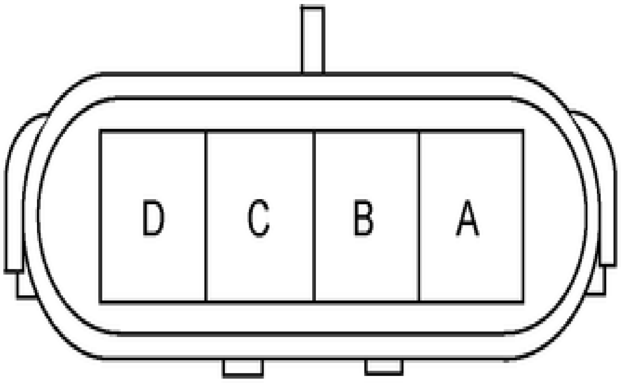
Connector Part Information		- 776429-1 - 3-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	LT GRN/WHT	MA019C	Fuel Tank Unit Sensor Signal
2	BLK	MX004C	Ground to J/B 2 (B-141 pin 6) (B-53 Ground)
3	—	—	Not Used

Left Outer Frame Rail, Next to the Fuel tank. (50 Gallon Tank Shown, 100 Gallon Tank Similar)



4892779

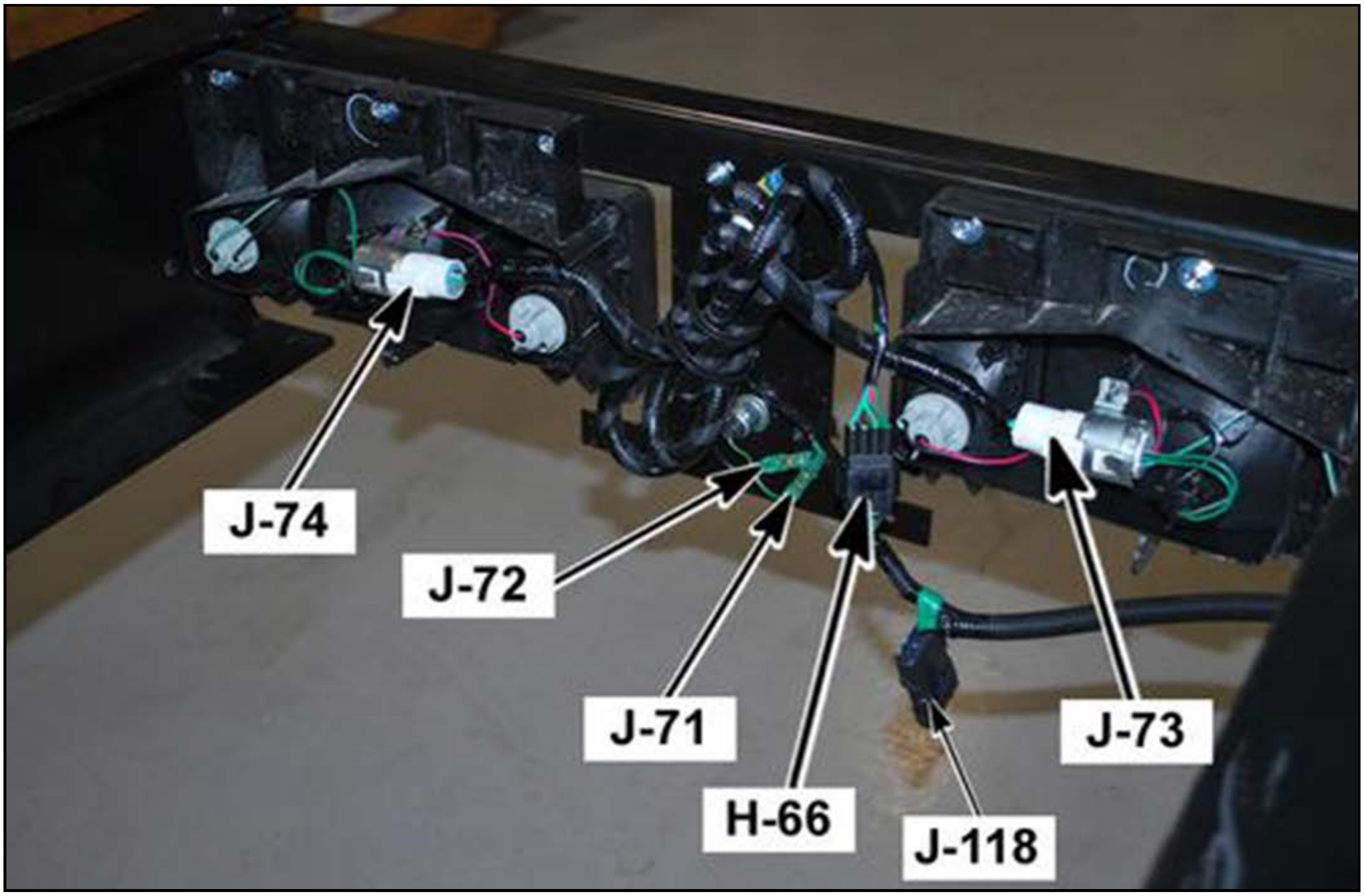
J-118 Rear Manufacture Connector



4892786

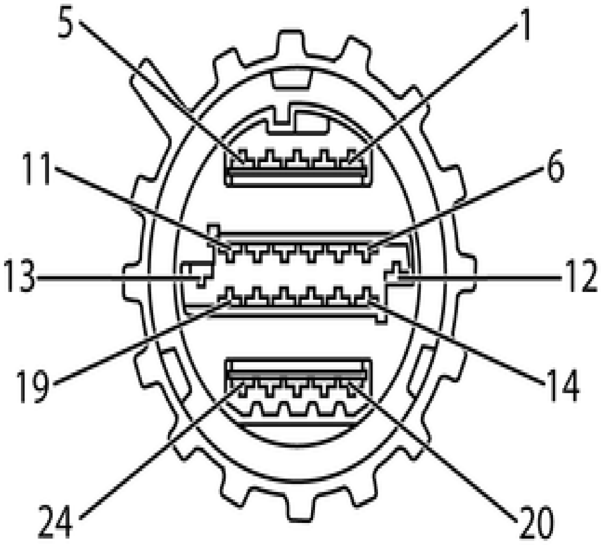
Connector Part Information		• 12015787 • 4-Way F • Body Builder Installed		Connector Part Information		• 12010974 • 4-Way M (BLU)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
A	—	—	—	A	LT GRN/BLK	BA048D	Switched Output Voltage from Marker Lamp Relay Relay
B	—	—	—	B	RED	IA027D	Battery Voltage from Fuse F36
C	—	—	—	C	WHT/BLK	IA028D	Switched Output Voltage from Rear Dome Lamp Relay
D	—	—	—	D	BLK/BLU	IX013D	Ground to J-298

At the Rear of the Frame, Near the Rear Combination Lamps


J-74
J-72
J-71
H-66
J-118
J-73

4891907

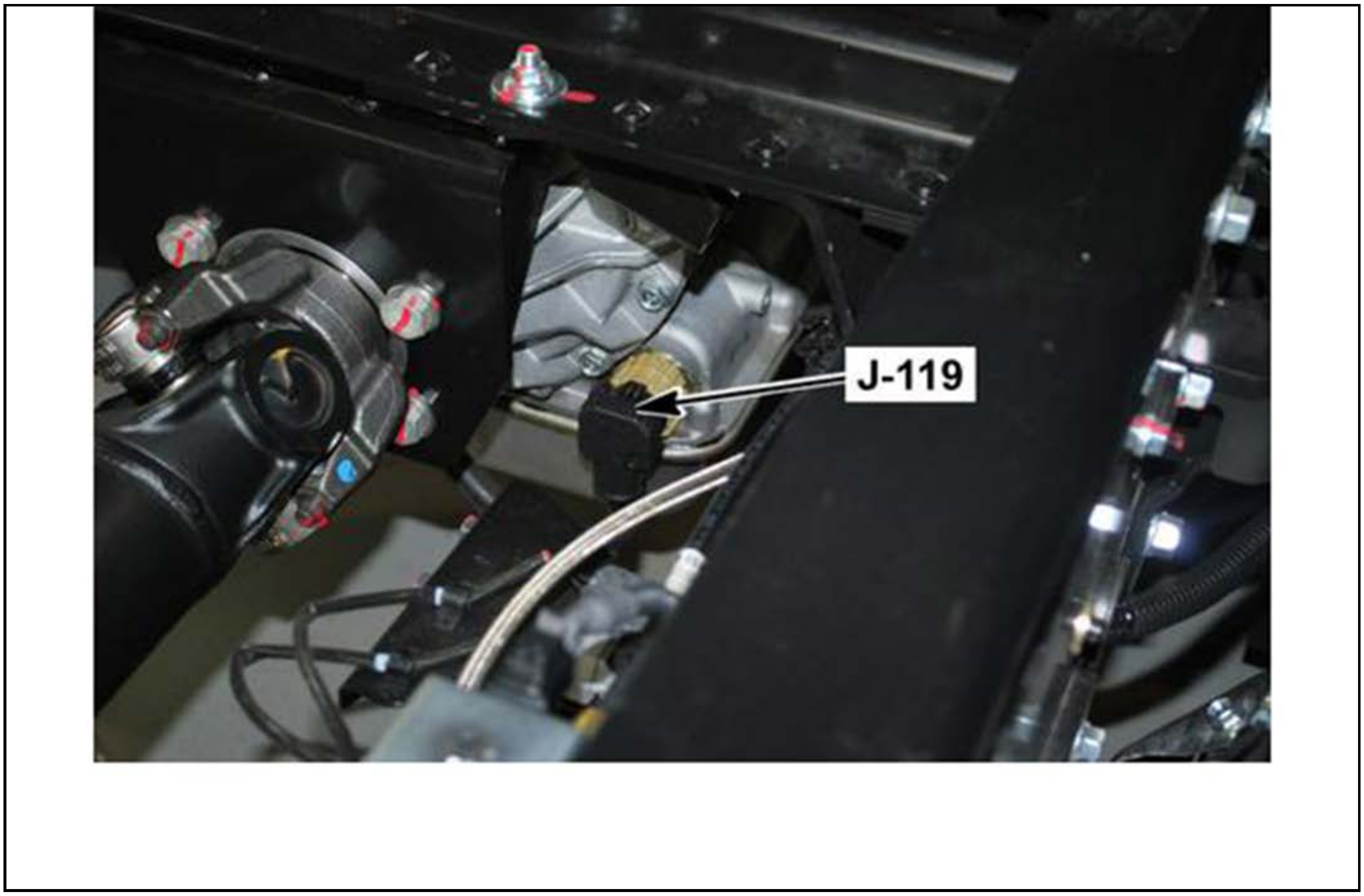
J-119 Transmission



4892788

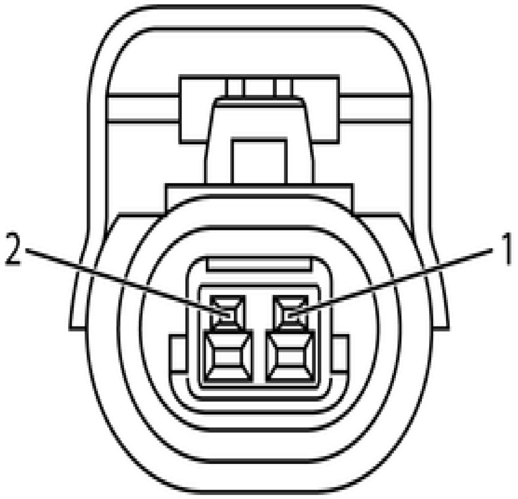
Connector Part Information	- R-62001-001) - 24-Way F (BRN		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT/GRN	OA076C	Shift Solenoid 1 (SS1) Control
2	WHT/BLK	OA075C	Shift Solenoid 2 (SS2) Control
3	WHT	OA074C	Shift Solenoid 3 (SS3) Control
4	GRN/BLK	OA067C	Pressure Switch 1 (PS1) Signal
5	—	—	Not Used
6	GRN	OA066C	Pressure Switch 3 (PS3) Signal
7	GRN/YEL	OA068C	Pressure Switch 2 (PS2) Signal
8	YEL/RED	OA085C	Fluid Temperature Sesnor
9	BLK	OA086C	Analog Sensor Signal Return
10	BRN/WHT	OA080C	Torque Converter Clutch (TCC) Solenoid Control
11	YEL/GRN	OA083C	Pressure Switch 4 (PS4) Signal
12	ORN	OA098C	Pressure Control Solenoid 3 (PCS 3) Control
13	BRN/YEL	OA097C	High Side Driver (HSD) 3 Voltage
14	YEL/BRN	OA082C	High Side Driver (HSD) 1 Voltage
15	YEL/BLK	OA081C	Pressure Control Solenoid 1 (PCS 1) Control
16	BRN/BLK	OA078C	High Side Driver (HSD) 2 Voltage
17	WHT/BLU	OA077C	Pressure Control Solenoid 2 (PCS 2) Control
18	GRN/WHT	OA070C	Internal Mode Switch Position "CE"
19	WHT/RED	OA079C	Main Modulator Solenoid Control
20	BLU/RED	OA071C	Internal Mode Switch Position "C"
21	BLU	OA072C	Internal Mode Switch Position "B"
22	BLU/YEL	OA073C	Internal Mode Switch Position "A"
23	GRN/RED	OA069C	Internal Mode Switch Position "P"
24	—	—	Not Used

Right Rear of the Transmission



4892791

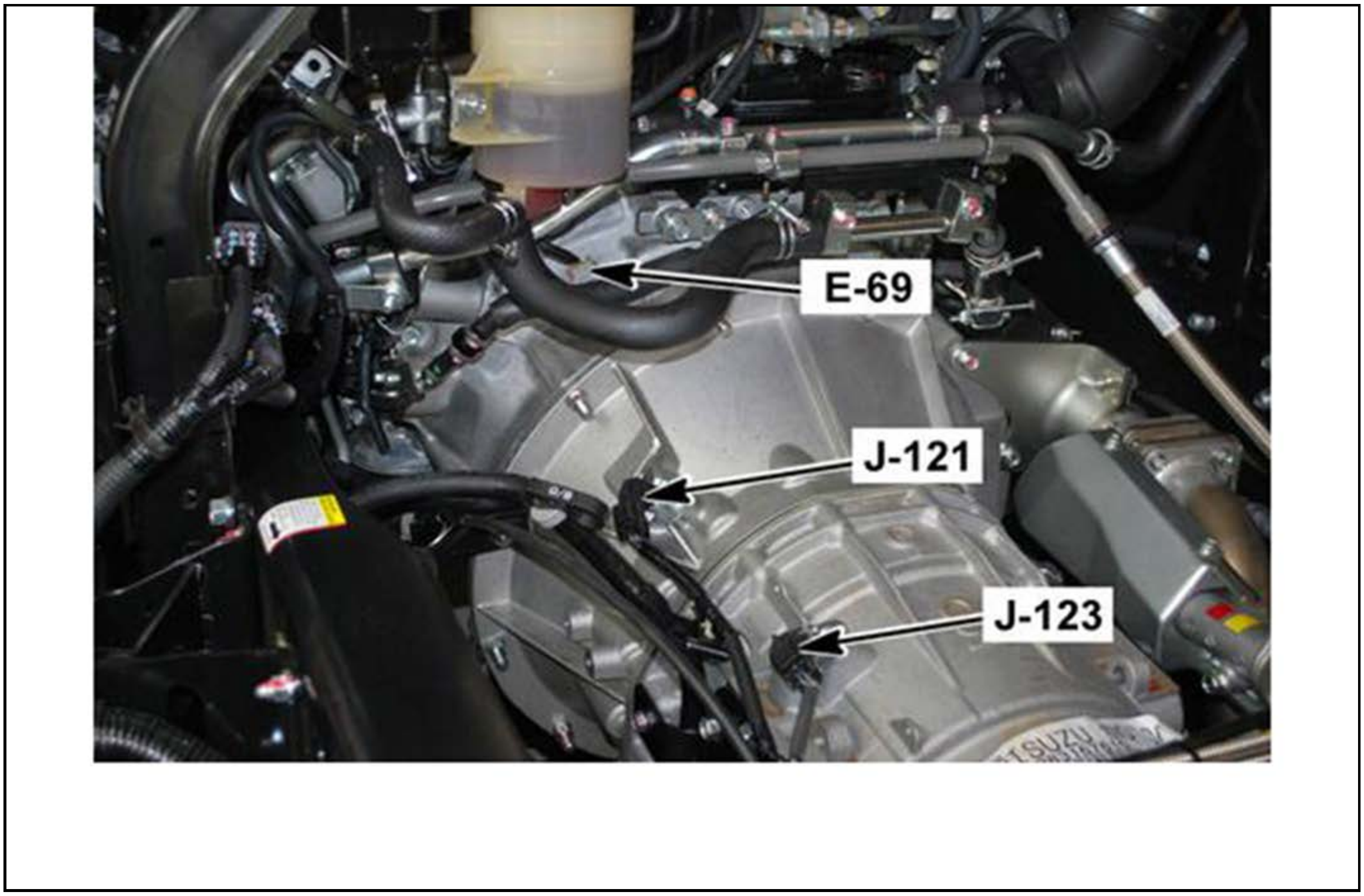
J-121 Engine Speed Sensor



4892796

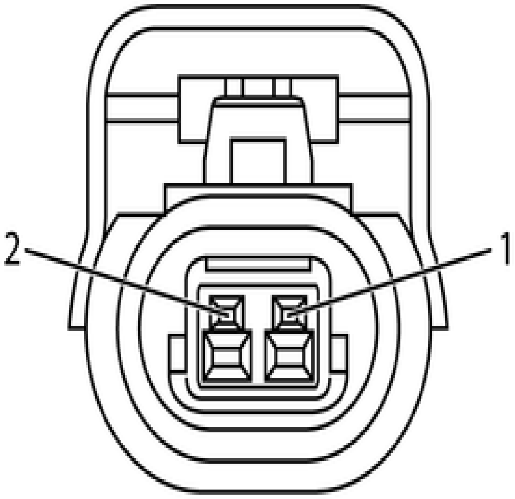
Connector Part Information		• 13520101 • 2-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT/RED	OA061C	Engine Speed Sensor Signal
2	BLK/RED	OA060C	Engine Speed Sensor Supply Voltage

Left Upper Side of the Transmission Housing



4891776

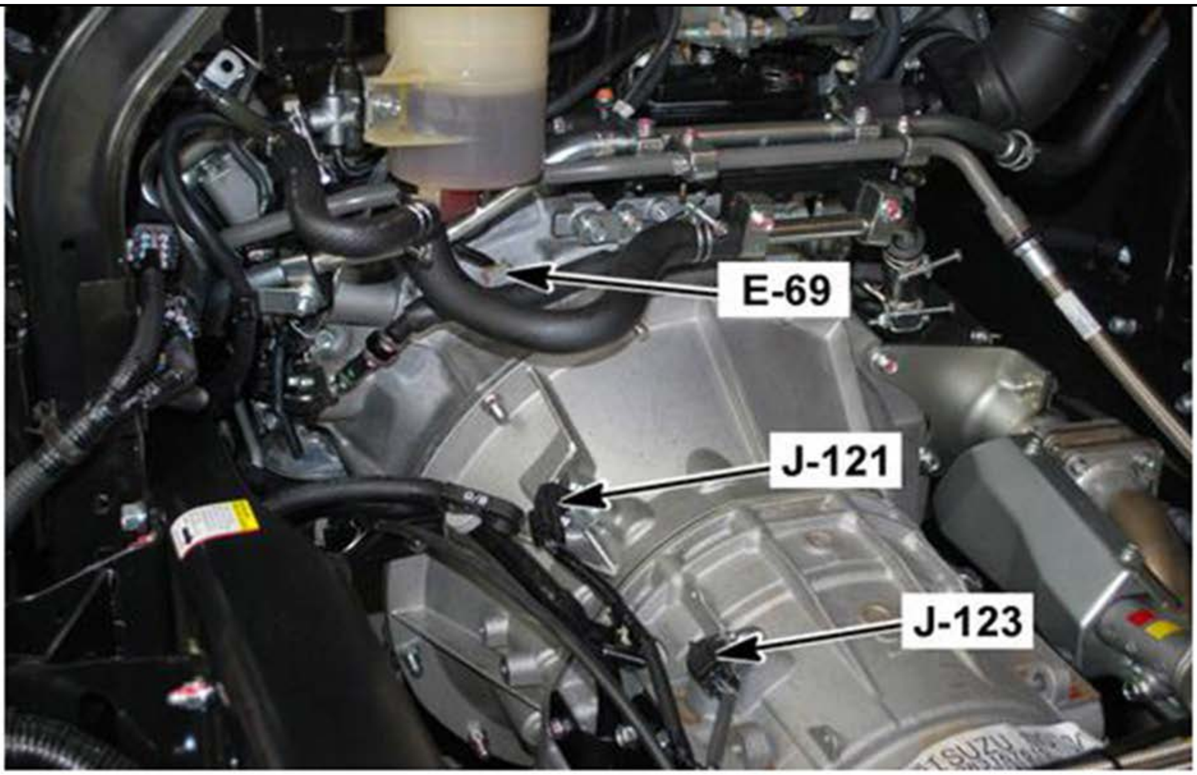
J-123 Input Shaft Speed (ISS) Sensor



4892796

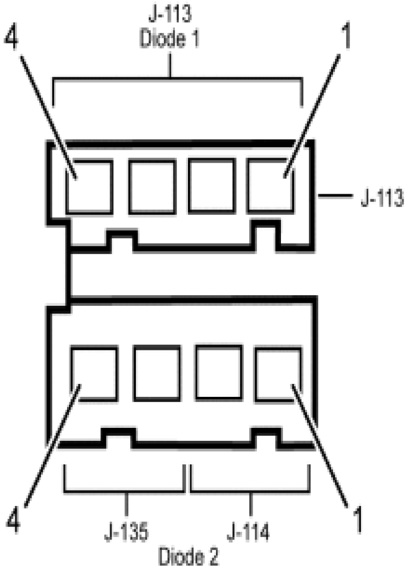
Connector Part Information		• 13520101 • 2-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU	OA065C	Input Shaft Speed (ISS) Sensor Signal
2	YEL	OA064C	Input Shaft Speed (ISS) Sensor 5-Volt Supply

Left Upper Side of the Transmission Housing



4891776

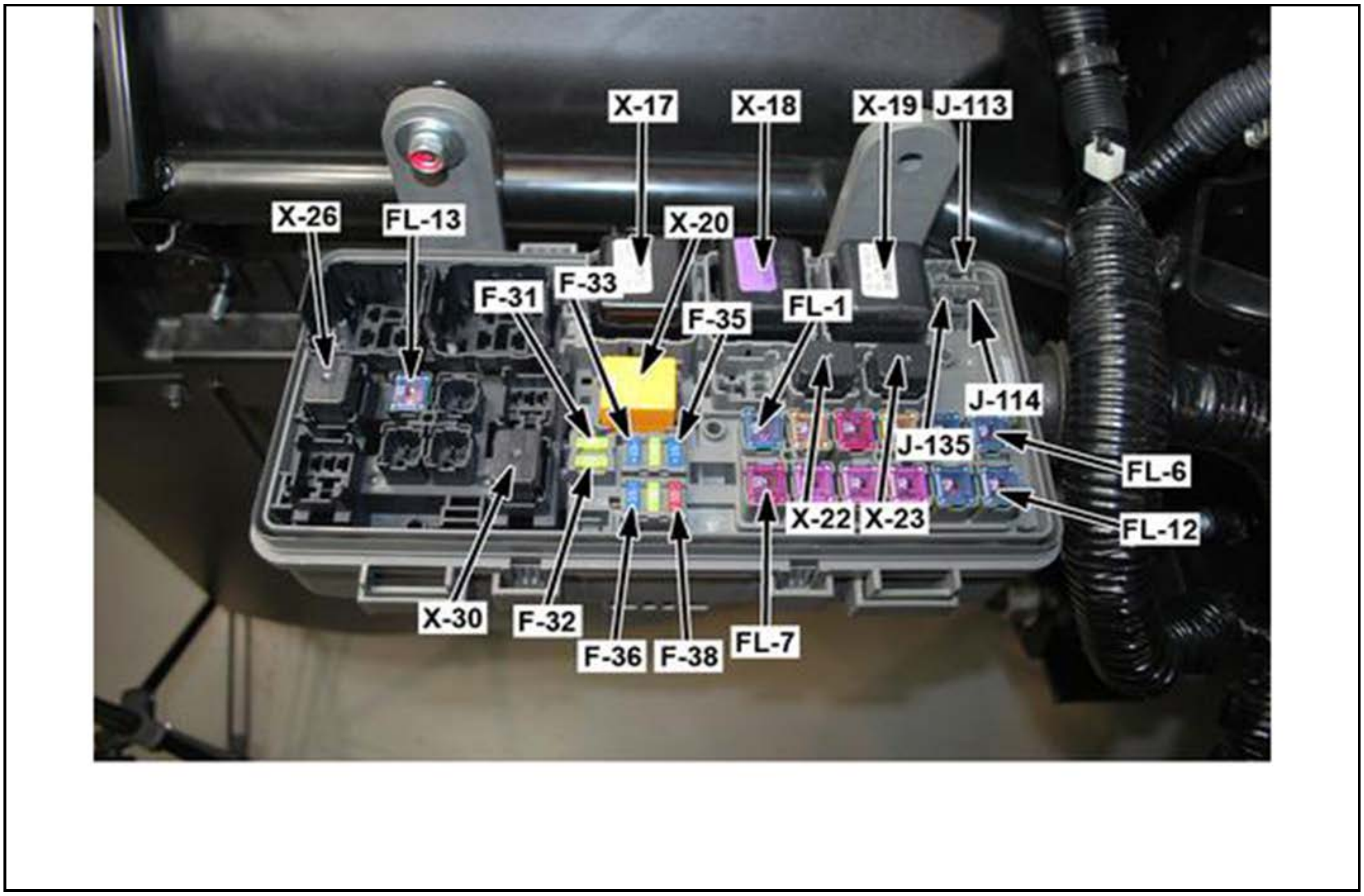
J-135 PTO Diode 2


J-113
Diode 1
4
1
J-113
4
J-135
J-114
Diode 2
1

4892754

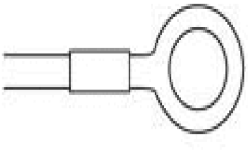
Connector Part Information		• 898030-7630 • Fuse/Relay Center	
Pin	**Wire Color**	**Circuit Number**	**Function**
1–2	—	—	Diode 2 J-114
3	BLU/ORN	IC092C	PTO Up/Down Switch (Up + PTO Resume) (In)
4	PNK/BLU	IC176C	PTO Up/Down Switch (Up + PTO Resume) (Out)

Left Outer Frame Rail, In the Fuse/Relay Center


X-17
X-18
X-19
J-113
X-26
FL-13
X-20
F-31
F-33
F-35
FL-1
J-114
J-135
FL-6
X-22
X-23
FL-12
X-30
F-32
F-36
F-38
FL-7

4892760

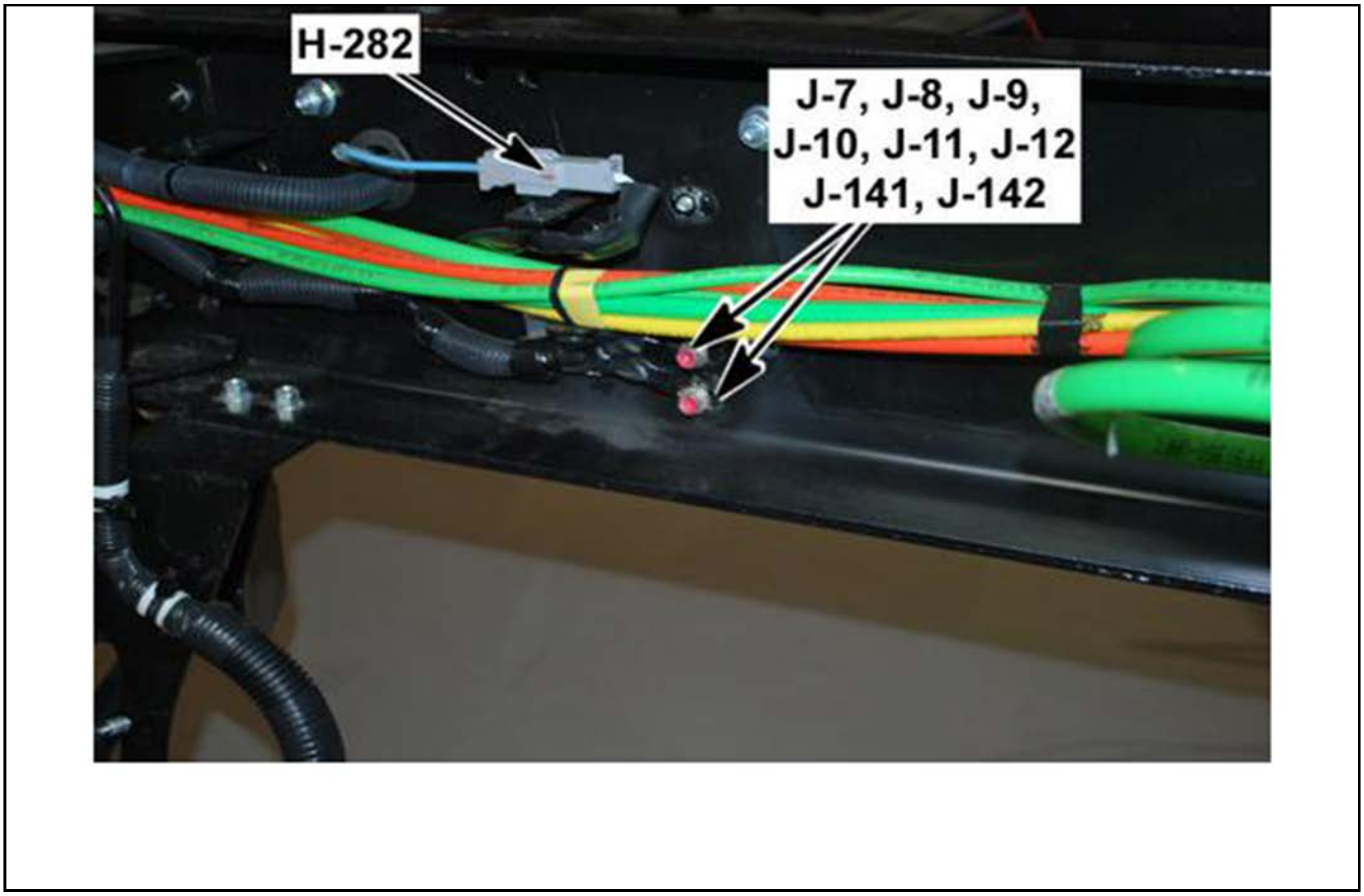
J-141 Ground



4891426

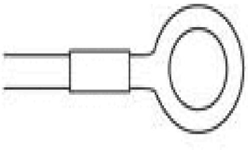
Connector Part Information		• LA-08 • 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	FT006C	Ground to Splice 1

Right Inner Frame Rail, Next to the Batteries


H-282
J-7, J-8, J-9,
J-10, J-11, J-12
J-141, J-142

4892315

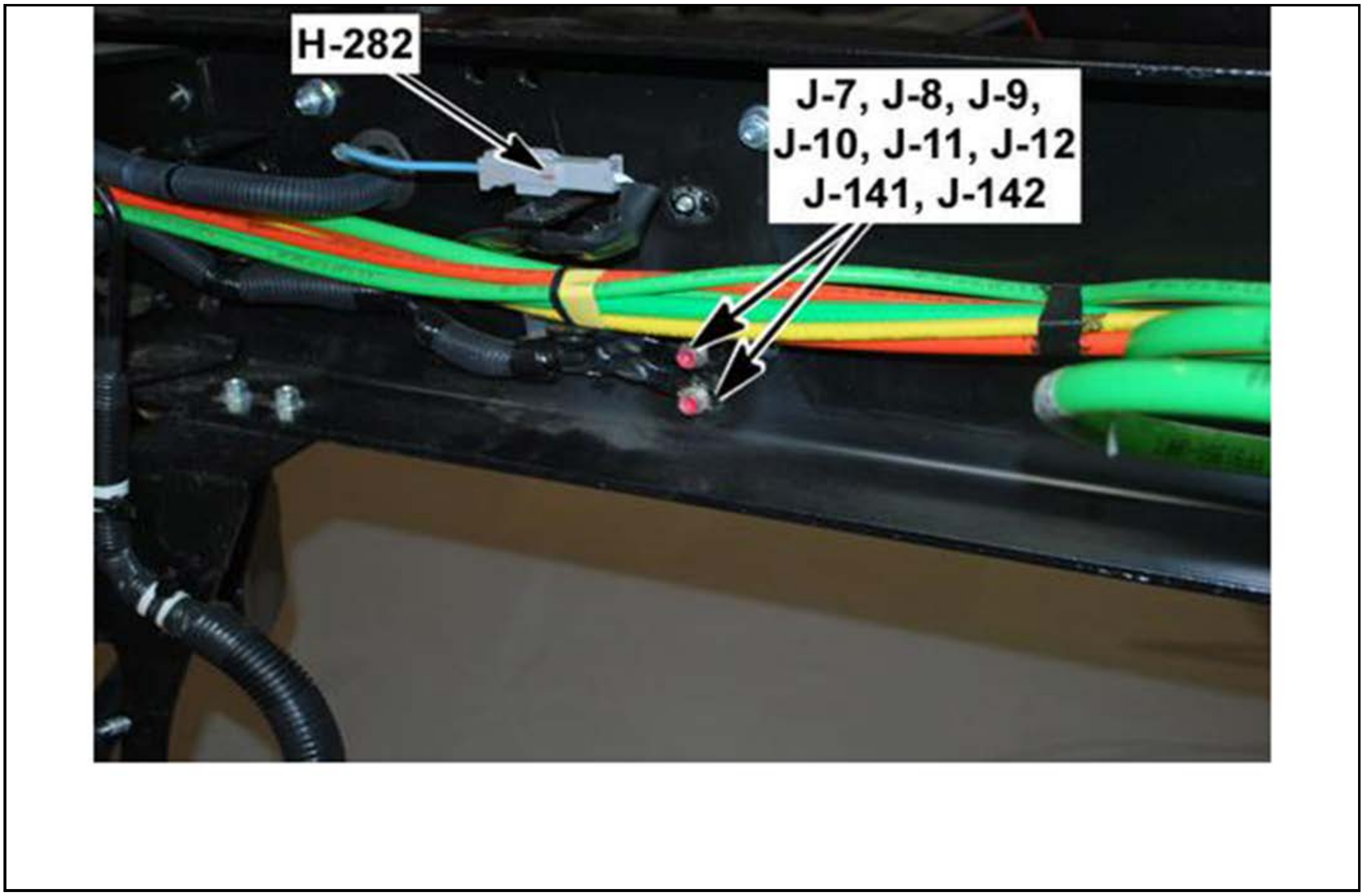
J-142 Ground



4891426

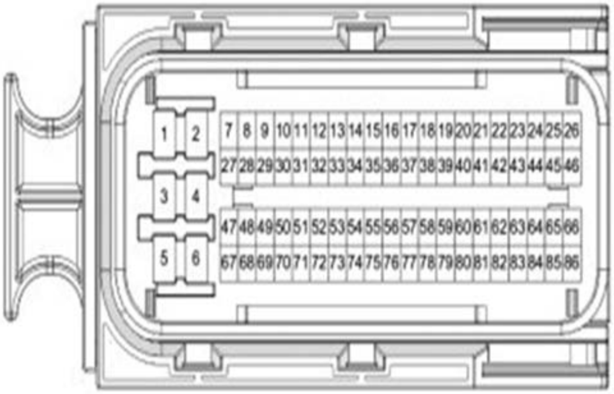
Connector Part Information		• LA-08 • 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	FT007C	Ground to NOx Sensors 1 and 2
—	BLK	FT010C	Ground to DEF Tank Heater Coolant Control Valve

Right Inner Frame Rail, Next to the Batteries


H-282
J-7, J-8, J-9,
J-10, J-11, J-12
J-141, J-142

4892315

J-143 Diesel Exhaust Fluid (DEF) Module


1
2
3
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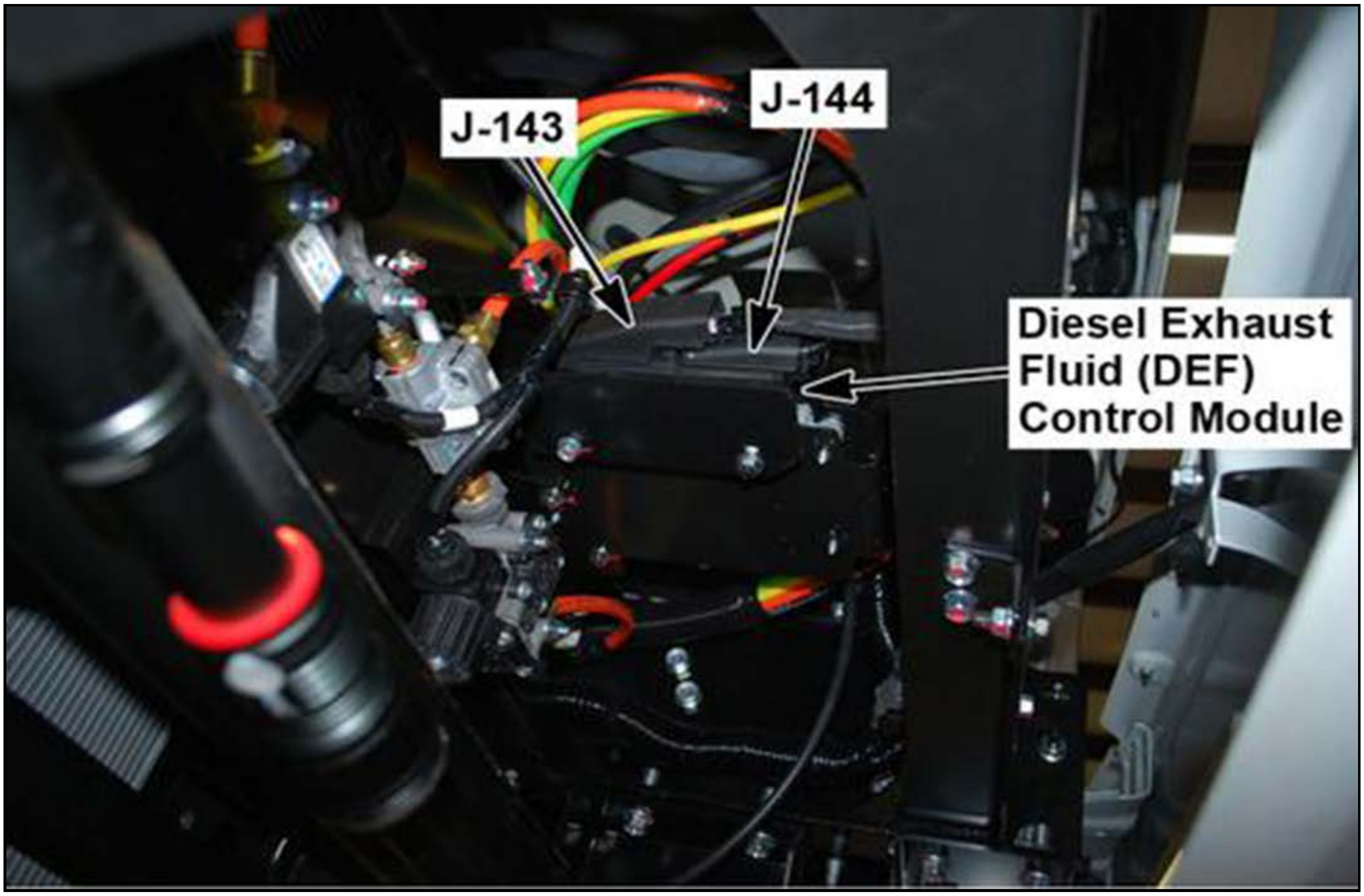
5
6
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66
67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86

4892805

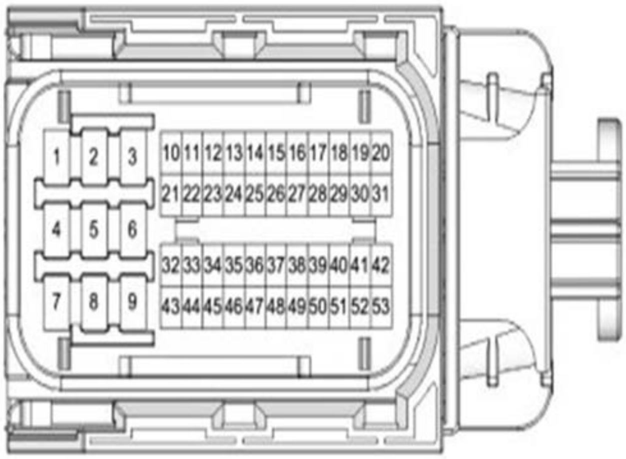
Connector Part Information		• A003-540-85-81 • 86-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	ORN	FG016C	NOx & DEF Sensor Relay Control
2–7	—	—	Not Used
8	GRY	FG013C	DEF Heater Valve Relay Control
9–11	—	—	Not Used
12	BLU	FG010C	DEF Injector Low Side
13–16	—	—	Not Used
17	PNK	FG032C	DEF Pump Pressure Sensor Signal
18	WHT/BLU	FG030C	DEF Pump Pressure Sensor Low Reference
19	VIO/YEL	FG031C	DEF Pump Pressure Sensor 5V Reference
20–23	—	—	Not Used
24	GRY	FG027C	DEF Pump Motor Control
25	—	—	Not Used
26	WHT/BLK	FG026C	DEF Pump Motor Valve Low Reference
27–31	—	—	Not Used
32	RED	FG009C	DEF Injector High Side
33	VIO	FG023C	EGT Sensor 3 Signal
34	VIO/WHT	FG024C	EGT Sensor 3 Low Reference
35–45	—	—	Not Used
46	RED/BLU	FG025C	DEF Pump Motor 12V Reference
47–64	—	—	Not Used
65	LT GRN	FG029C	DEF Pump Reverting Valve Control
66–84	—	—	Not Used
85	LT GRN	FG014C	Heater Valve Relay Control
86	RED	FG028C	DEF Pump Reverting Valve 12V Reference

Front Frame Area, Behind the Grille


J-143
J-144
Diesel Exhaust Fluid (DEF) Control Module

4892813

J-144 Diesel Exhaust Fluid (DEF) Control Module


1
2
3
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7
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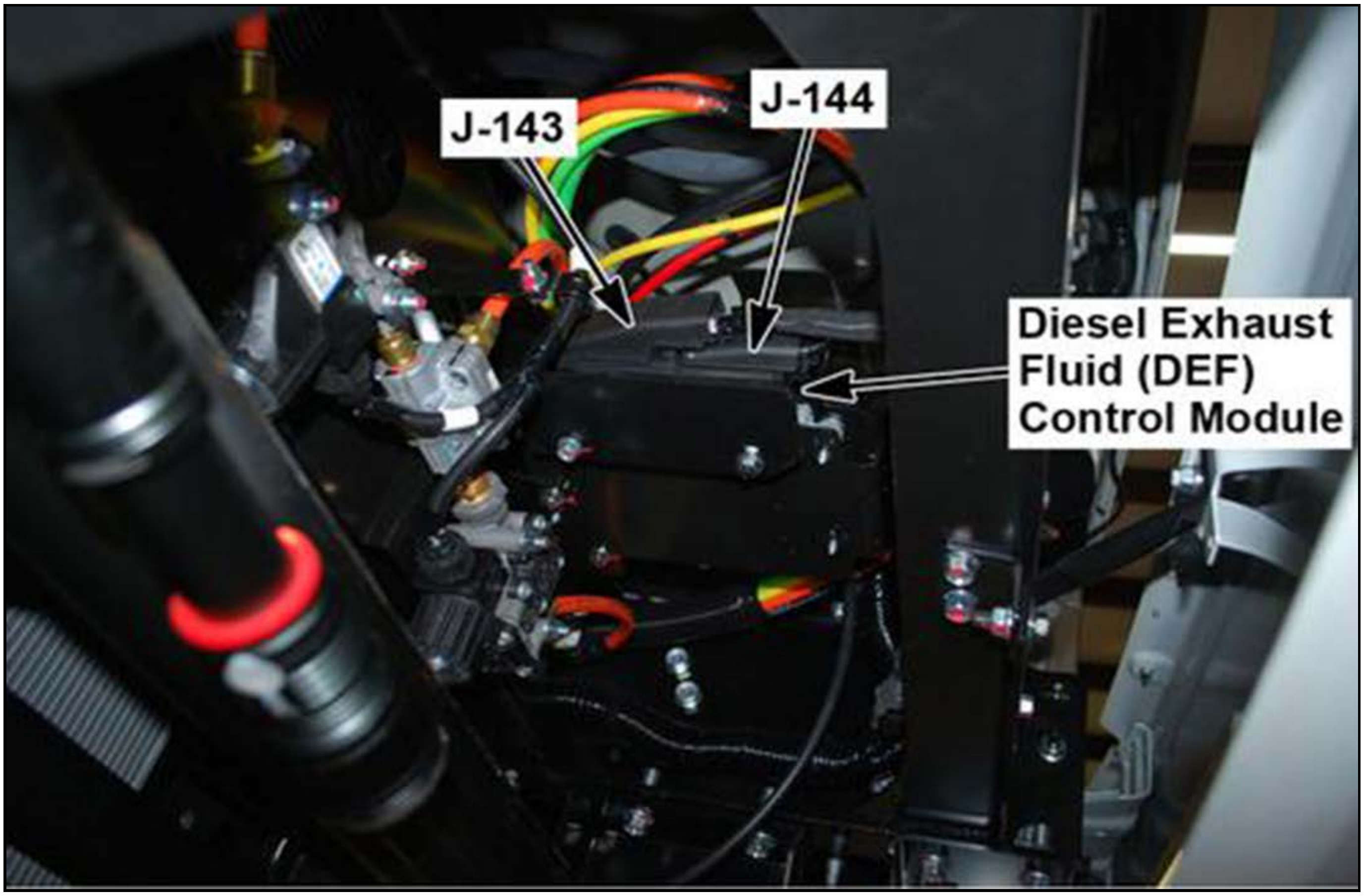
9
10 11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30 31
32 33 34 35 36 37 38 39 40 41 42
43 44 45 46 47 48 49 50 51 52 53

4892818

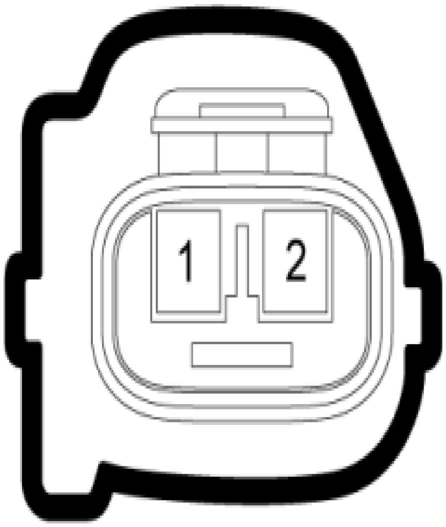
Connector Part Information		- A003540-87-81 - 53-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	FT001C	Ground to Splice 1 (J-141 Ground)
2	—	—	Not Used
3	BLK	FT003C	Ground to Splice 1 (J-141 Ground)
4	BLK	FT004C	Ground to Splice 1 (J-141 Ground)
5–6	—	—	Not Used
7	WHT	FG003C	Battery Voltage from Fuse F-34 Fuse/Relay Center
8	—	—	Not Used
9	WHT	FG005C	Battery Voltage from Fuse F-34 Fuse/Relay Center
10	—	—	Not Used
11	GRN/WHT	TF203C	ISO 15765 CAN 2 High
12	GRN	TF204C	ISO 15765 CAN 2 Low
13	—	—	Not Used
14	BLU/WHT	TF511C	CAN 3 Low
15	BLU	TF512C	CAN 3 High
16–45	—	—	Not Used
46	BLU/WHT	TF309C	Termination (Jumper) to Pin 47
47	BLU/WHT	TF309C	Termination (Jumper) to Pin 46
48	BLU	TF310C	Termination (Jumper) to Pin 49
49	BLU	TF310C	Termination (Jumper) to Pin 48
50–51	—	—	Not Used
52	BLK/ORN	FG107C	Ignition Voltage from Fuse F-20
54	—	—	Not Used

Front Frame Area, Behind the Grille


J-143
J-144
Diesel Exhaust Fluid (DEF) Control Module

4892813

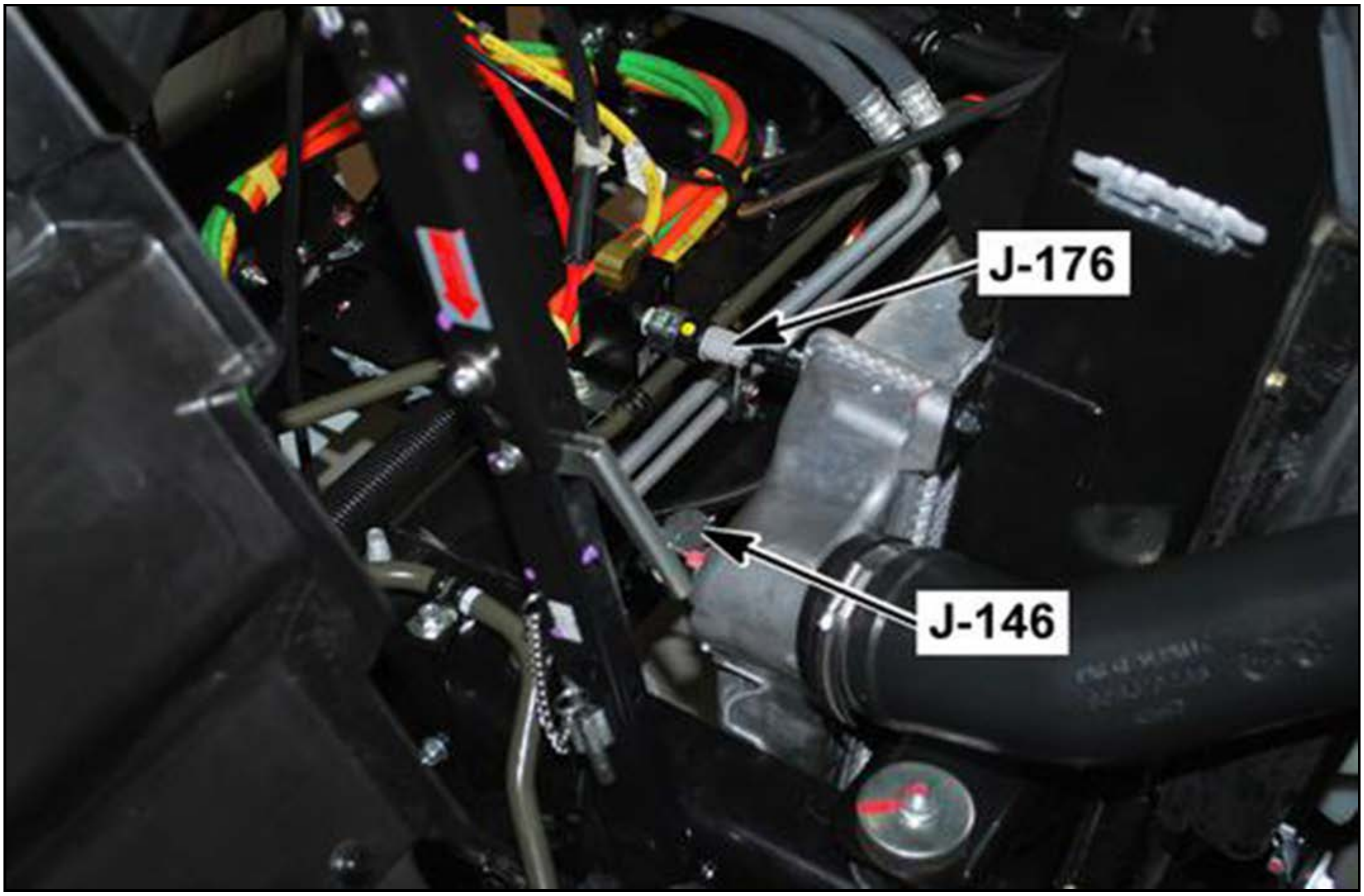
J-146 Charge Air Cooler (CAC) Temperature Sensor



4892842

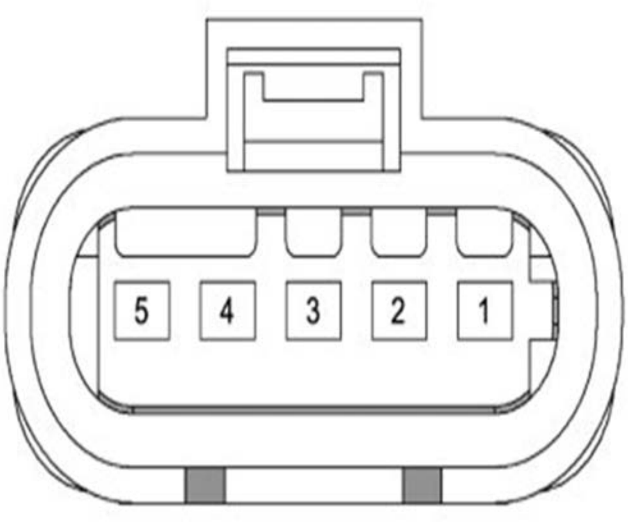
Connector Part Information		- 7383-7020-10 - 2-Way F (DK GRY)	
Pin	Wire Color	Circuit Number	Function
1	WHT	IC216C	Sensor Signal
2	WHT/BLU	IC217C	Sensor Low Reference

Left Front of the Inner Cooler



4892845

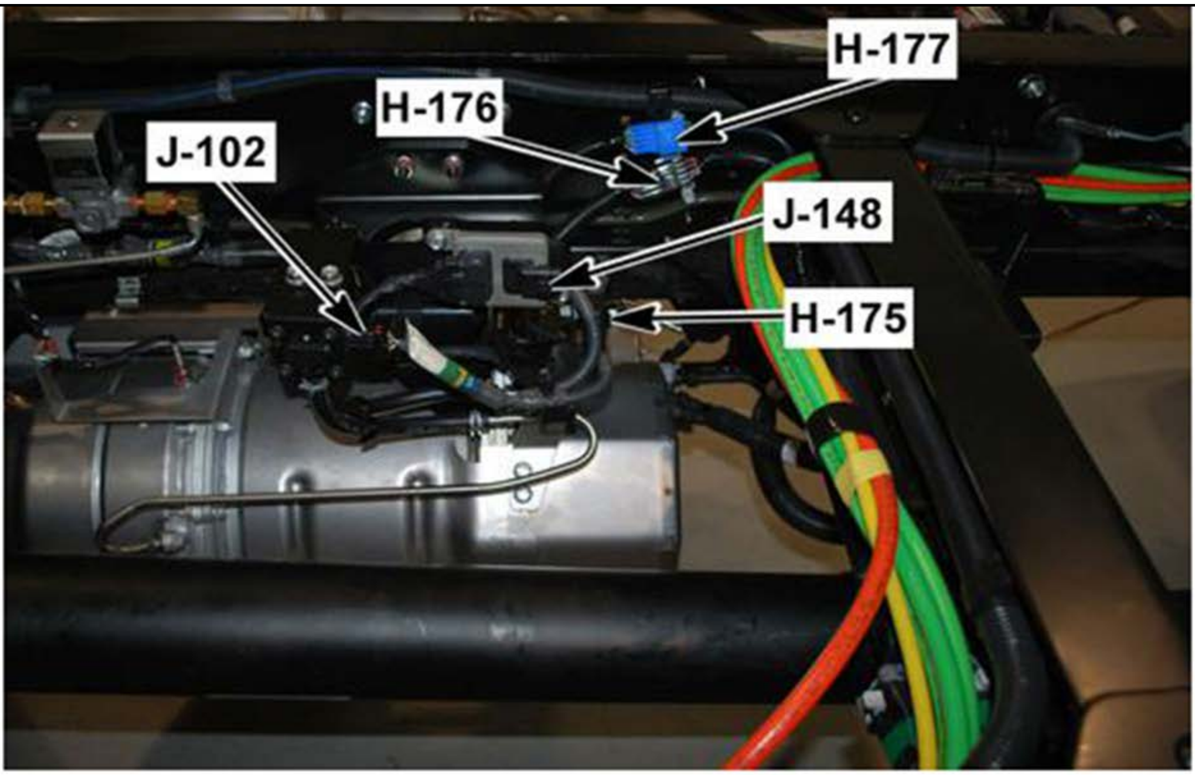
J-148 NOx Sensor 1



4892851

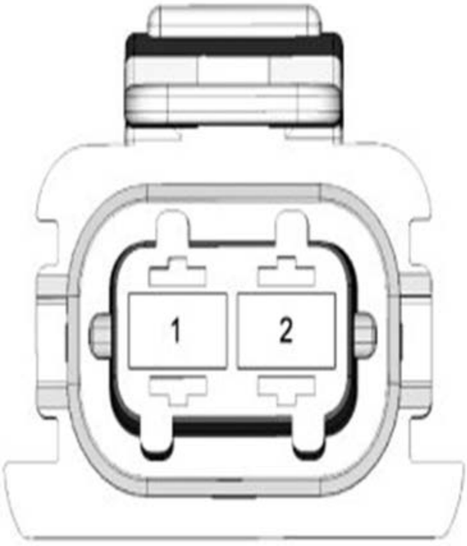
Connector Part Information	• 872-860-501 • 5-Way F (BLK)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK/ORN	FG07	Voltage from NOx & DEF Sensor Relay (X-19) (Switched Output Voltage)
2	BLK	FT07	Ground to J-142
3	BLU	TF308	CAN 3 High
4	BLU/WHT	TF307	CAN 3 Low
5	BLK	FT08	Ground to J-142

Right Inner Frame Rail, Above the Diesel Particulate Filter (DPF)


H-177
H-176
J-102
J-148
H-175

4892049

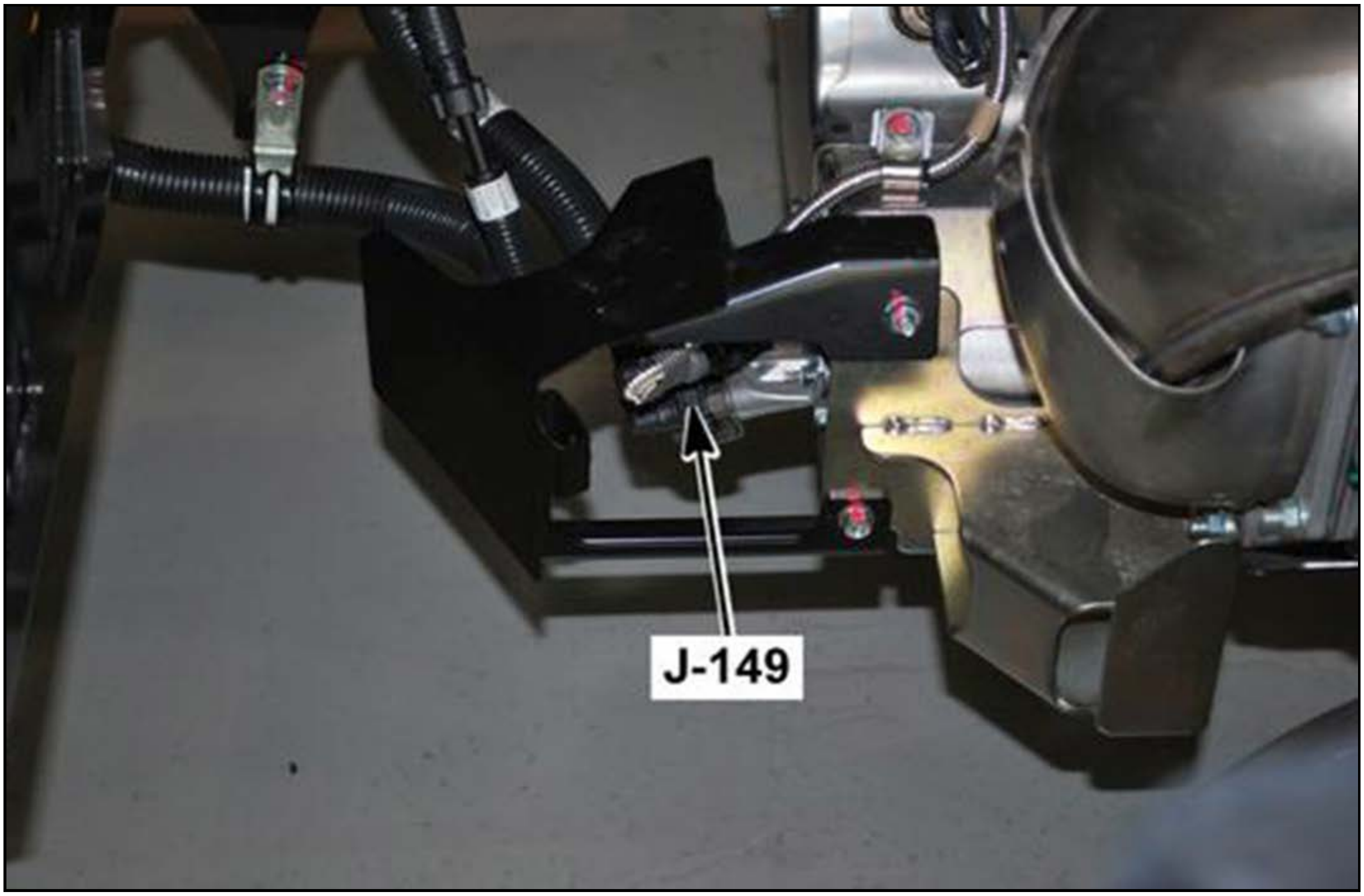
J-149 Diesel Exhaust Fluid (DEF) Injector



4892857

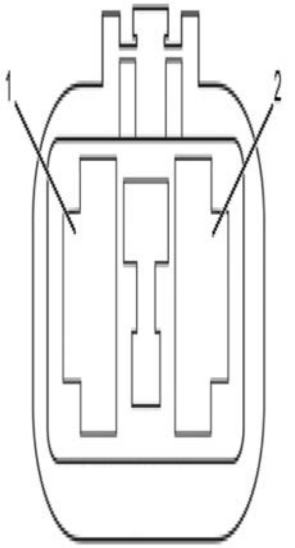
Connector Part Information		• 1-928-404-072 • 2-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED	FG009K	DEF Injector High Side
2	BLU	FG010K	DEF Injector Low Side

Right Outer Frame Rail, Behind the SCR Catalyst



4892861

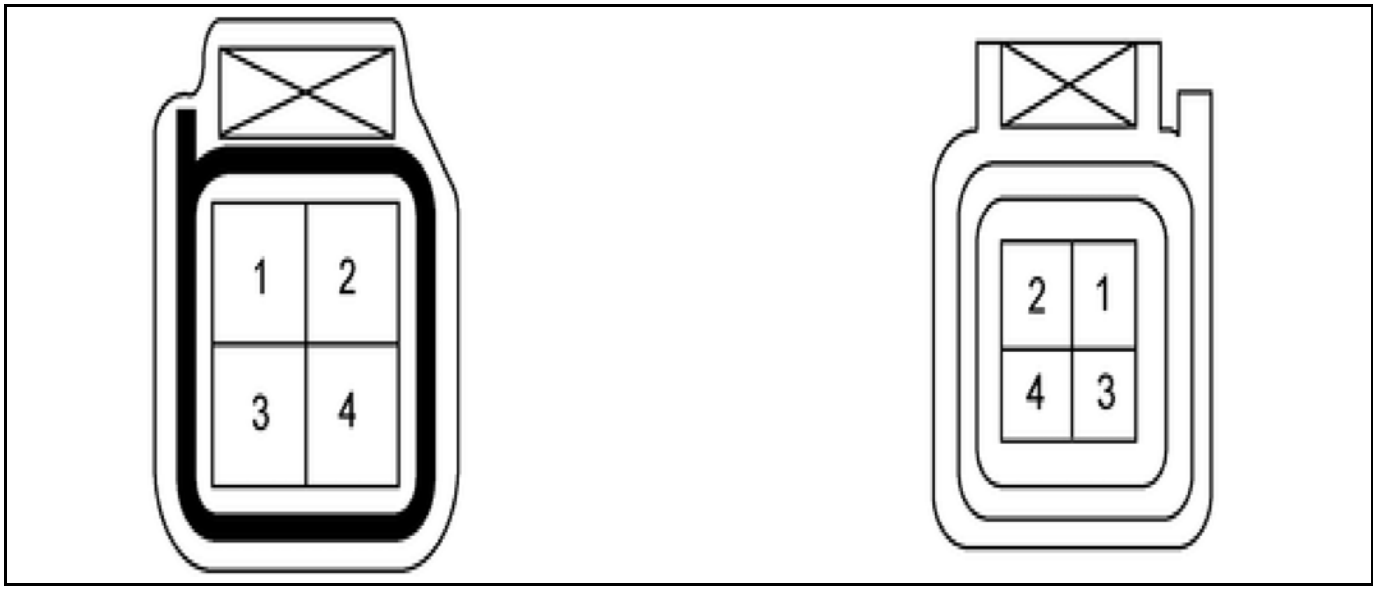
J-162 CAN 3 Resistor



4892987

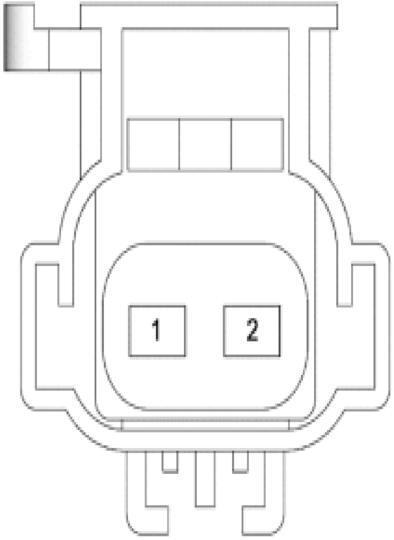
Connector Part Information		- 7323-6423-30 - 2-Way F (BLK)	
Pin	Wire Color	Circuit Number	Function
1	BLU/WHT	TF501I	CAN 3 Low
2	BLU	TF502I	CAN 3 High

Right Inner Frame Rail, Above the Front of the Diesel Particulate Filter (DPF)



4892020

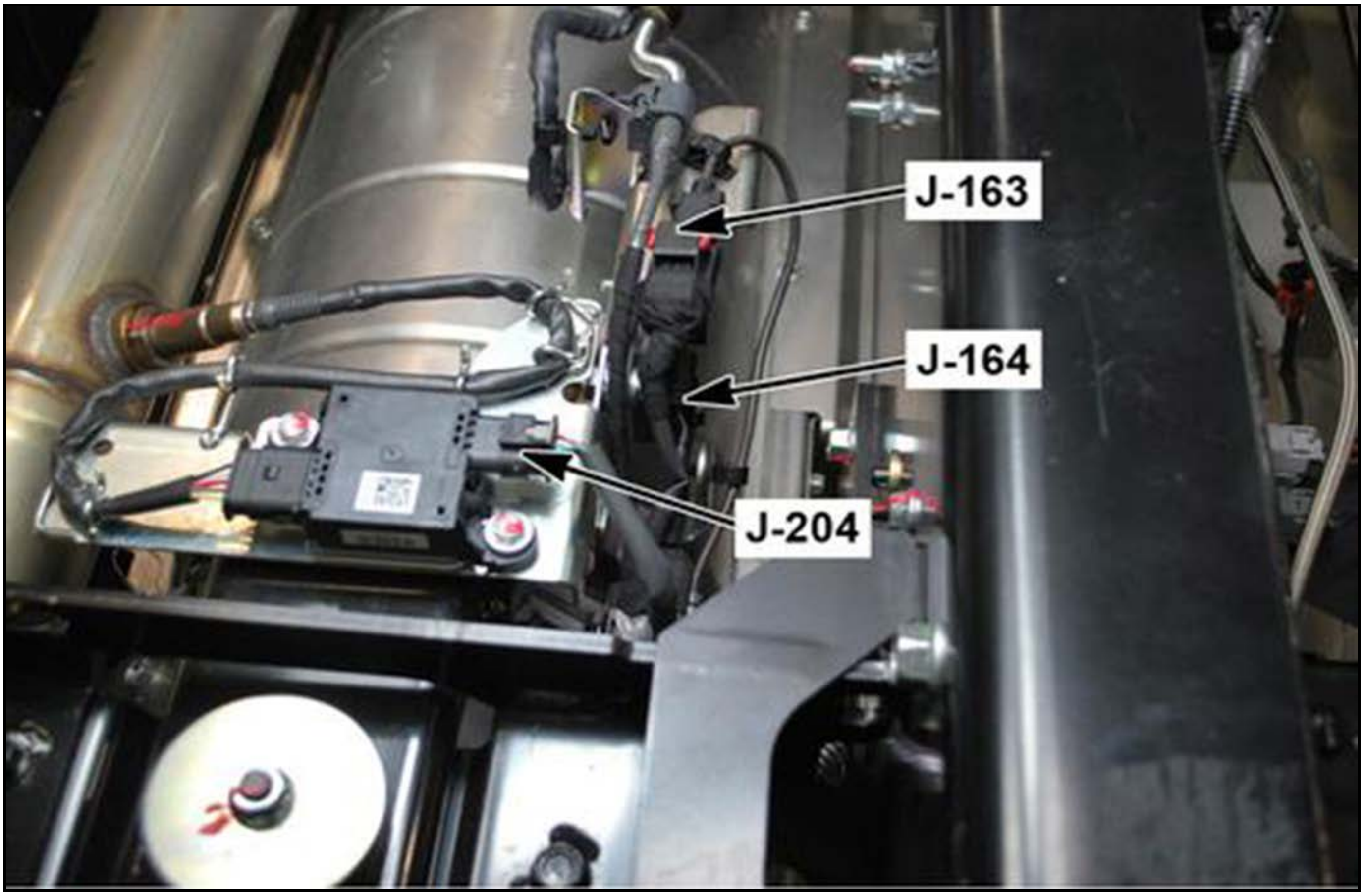
J-163 Exhaust Gas Temperature Sensor 3



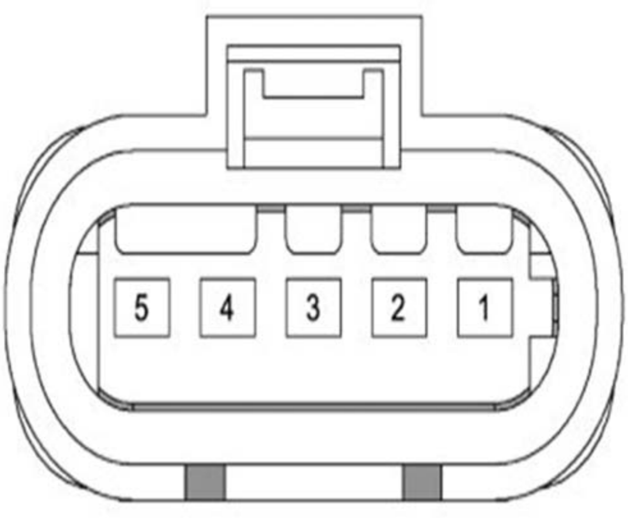
4893027

Connector Part Information		- 54200206 - 2-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	VIO/WHT	FG024K	EGT Sensor 3 Low Reference
2	VIO	FG023K	EGT Sensor 3 Signal

Right Outer Frame Rail, On the Front of the SCR Catalyst


J-163
J-164
J-204
4893034

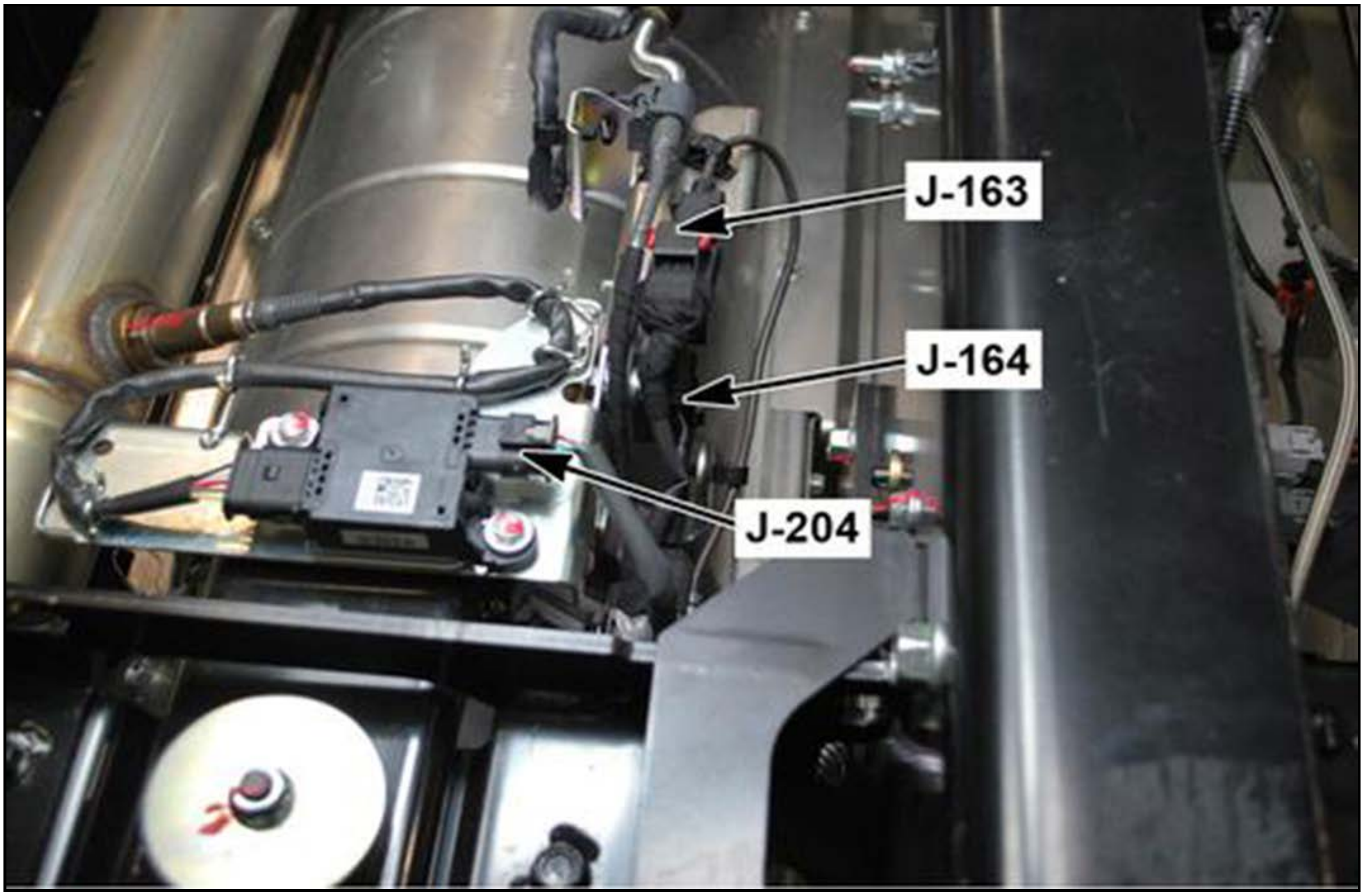
J-164 NOx Sensor 2



4892851

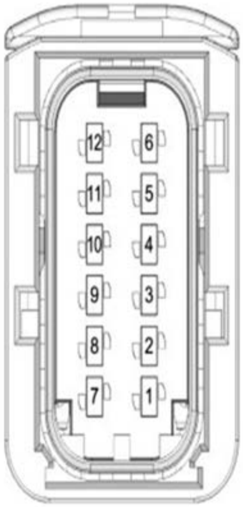
Connector Part Information		• 872-860-501 • 5-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK/ORN	FG035K	Voltage from NOx & DEF Sensor Relay (X-19) (Switched Output Voltage)
2	BLK	FT009K	Ground to J-142
3	BLU	TF304K	CAN 3 High
4	BLU/WHT	TF303K	CAN 3 Low
5	—	—	Not Used

Right Outer Frame Rail, On the Front of the SCR Catalyst



4893034

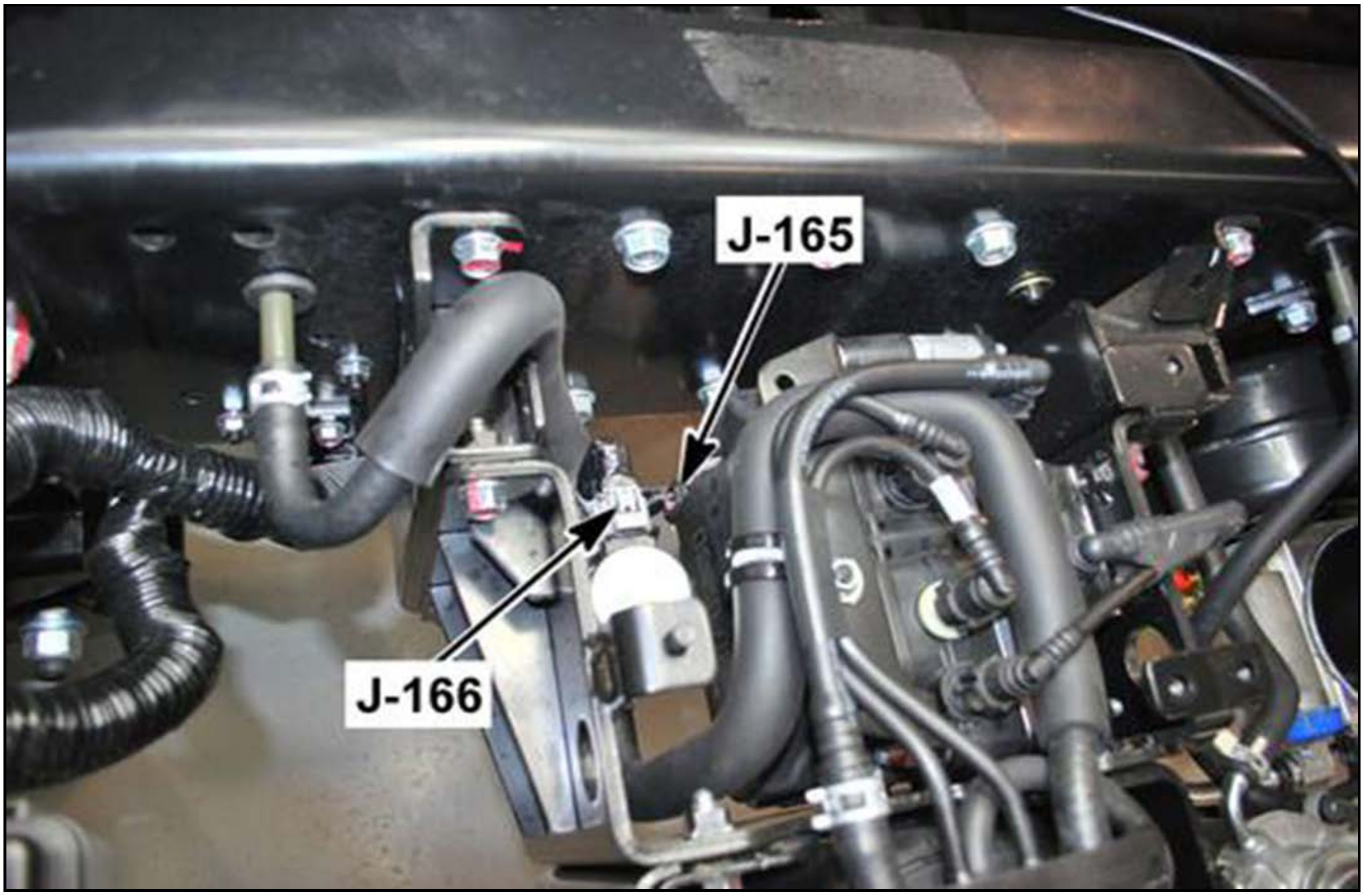
J-165 Diesel Exhaust Fluid Supply Pump



4893060

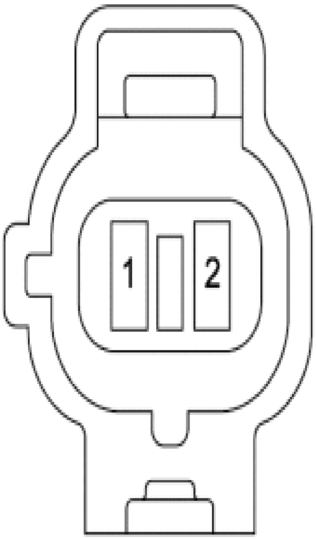
Connector Part Information		• 1-1703639-1 • 12-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	—	—	Not Used
2	VIO/YEL	FG31	DEF Supply Pump Pressure Sensor 5V Reference
3	PNK	FG32	DEF Supply Pump Pressure Sensor Signal
4	WHT/BLU	FG30	DEF Supply Pump Pressure Sensor Low Reference
5–7	—	—	Not Used
8	WHT/BLK	FG26	DEF Supply Pump Motor Valve Low Reference
9	RED/BLU	FG25	DEF Supply Pump Motor 12V Reference
10	GRY	FG27	DEF Supply Pump Motor Control
11	RED	FG28	DEF Supply Pump Reverting Valve 12V Reference
12	LT GRN	FG29	DEF Supply Pump Reverting Valve Control

Between the DEF tank and the Left Outer Frame Rail, Top Cover Has Been Removed



4893069

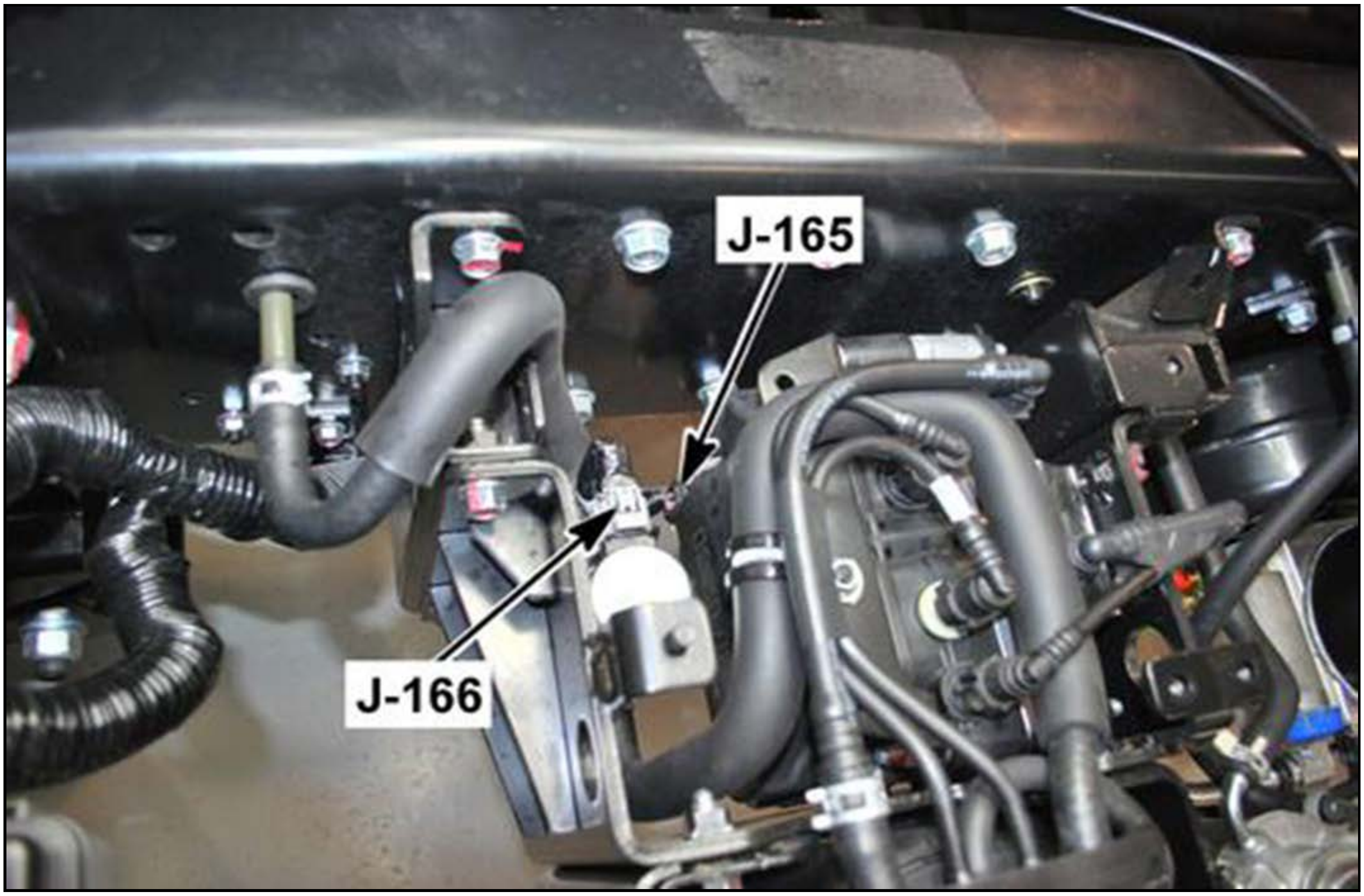
J-166 DEF Tank Heater Coolant Control Valve



4891863

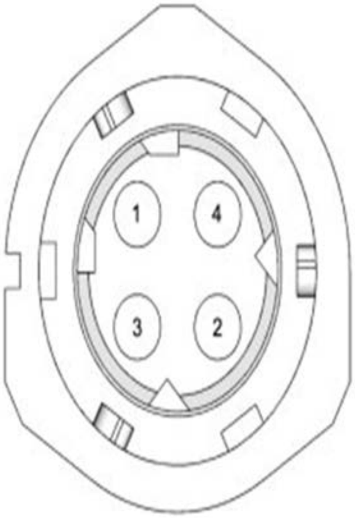
Connector Part Information		• 6189-0682 • 2-Way F (GRY)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/WHT	FG11	Valve Control from DEF Heater Valve Relay (X- 23)
2	BLK	FT10	Low Reference Ground to J-142

Between the DEF tank and the Left Outer Frame Rail, Top Cover Has Been Removed



4893069

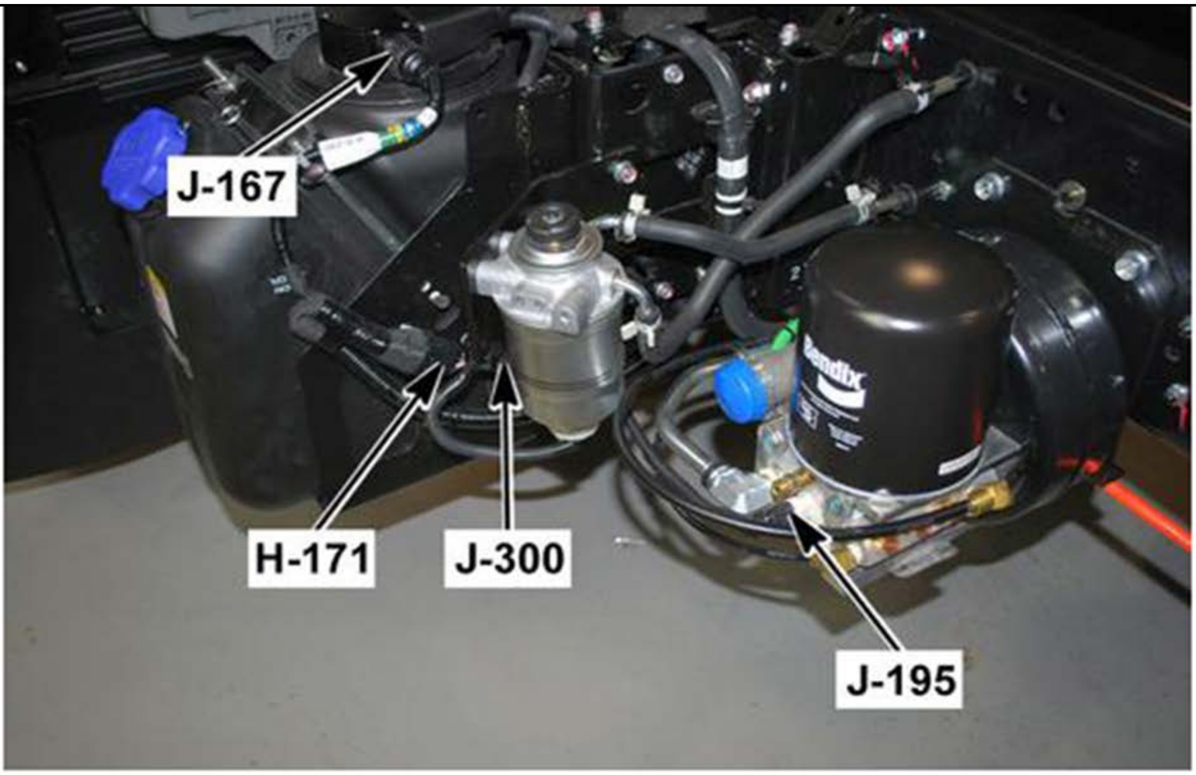
J-167 Diesel Exhaust Fluid Tank and Temperature Sensor



4893091

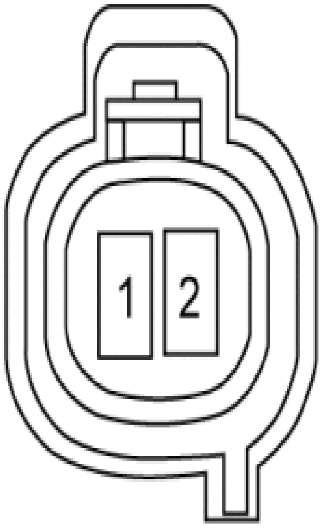
Connector Part Information	- 1-967325-1 - 4-Way F (BLK)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU	TF306	CAN 3 High
2	BLU/WHT	TF305	CAN 3 Low
3	BLU/WHT	FG36	DEF Level & Temperature Sensor Voltage from NOx & DEF Sensor Relay X-19
4	PNK/WHT	FT37	DEF Level & Temperature Sensor Low Reference Ground to J-142

Left Outer Frame Rail, On Top of the DEF Tank


J-167
H-171
J-300
J-195

4893104

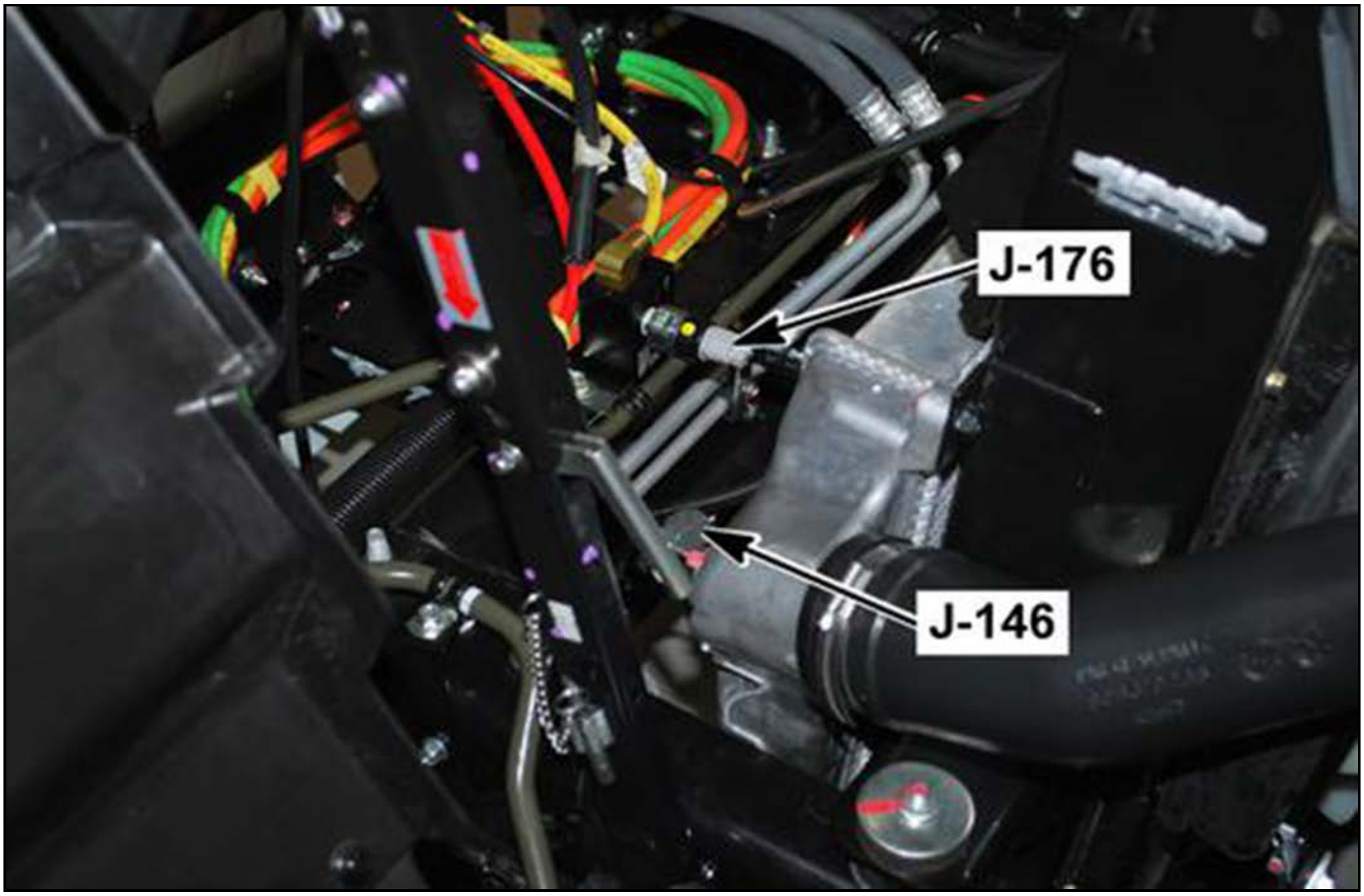
J-176 Parking Brake Switch



4891199

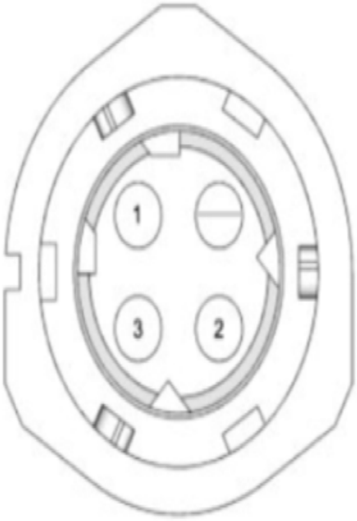
Connector Part Information	- 6189-0264 - 2-Way F (GRY)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT/BLK	MA098C	Parking Brake Switch Signal to J/B 1 (B-133 pin 16)
2	BLK	MX069C	Parking Brake Switch Ground to Splice 2 (J-8 and J-11 Ground)

Front Frame Area, in Front of the Inner Cooler



4892845

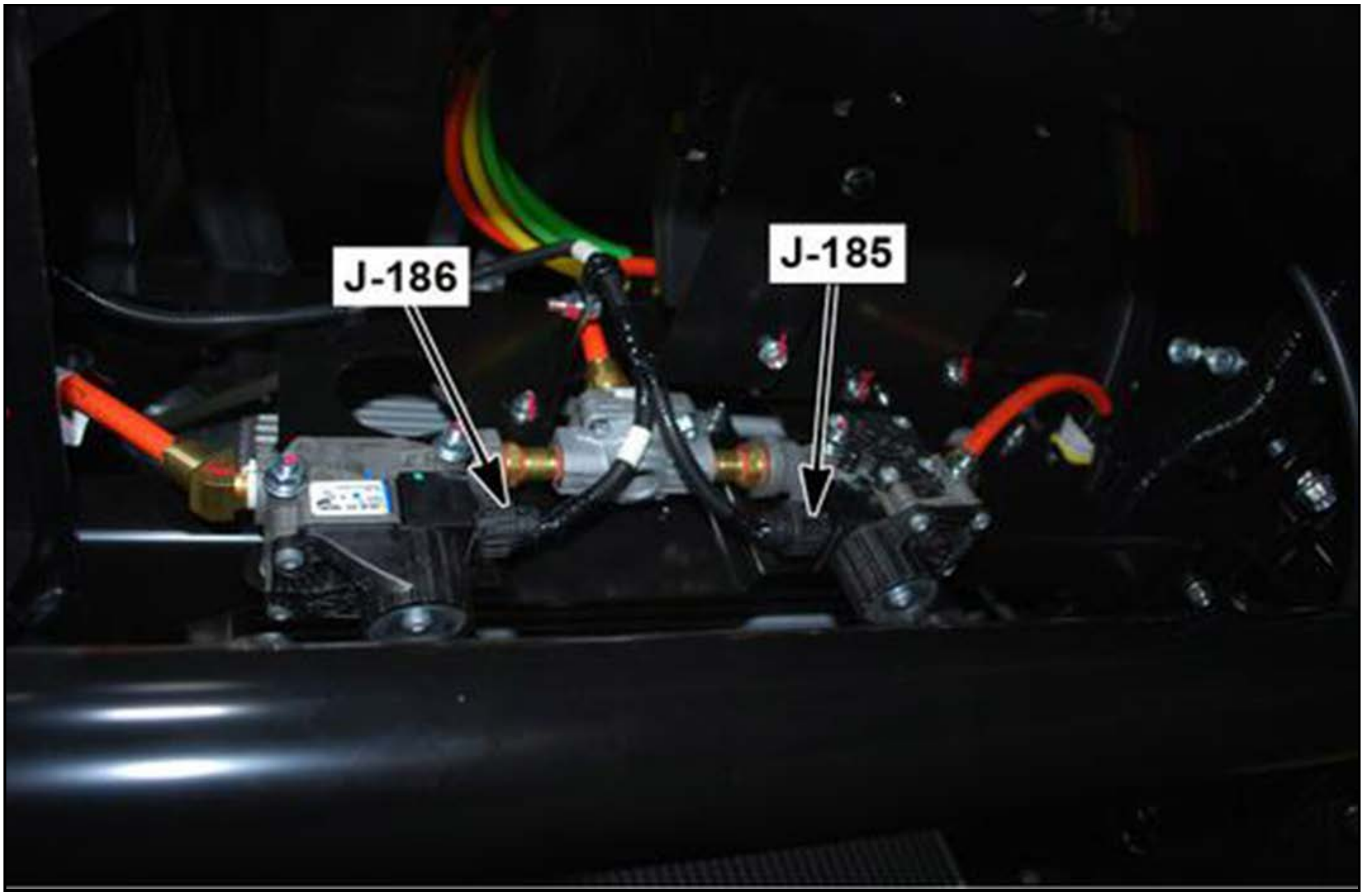
J-185 Pressure Modulator Valve (LF)



4893206

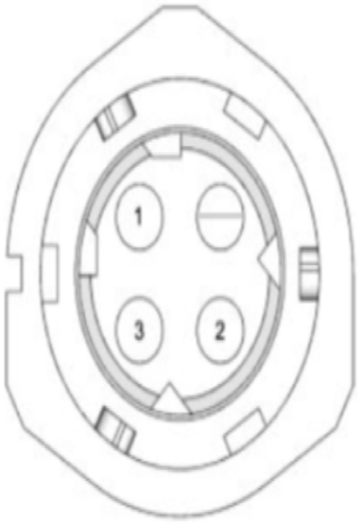
Connector Part Information	- 1-967325-2 - 3-Way F (BLK)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED	BB105L	Left Front Pressure Modulator Valve Release Control
2	BLK/RED	BB104L	Left Front Pressure Modulator Common (Low Reference)
3	GRN/WHT	BB103L	Left Front Pressure Modulator Valve Hold Control

Front Frame Area of the Vehicle, in Front of the Radiator



4893229

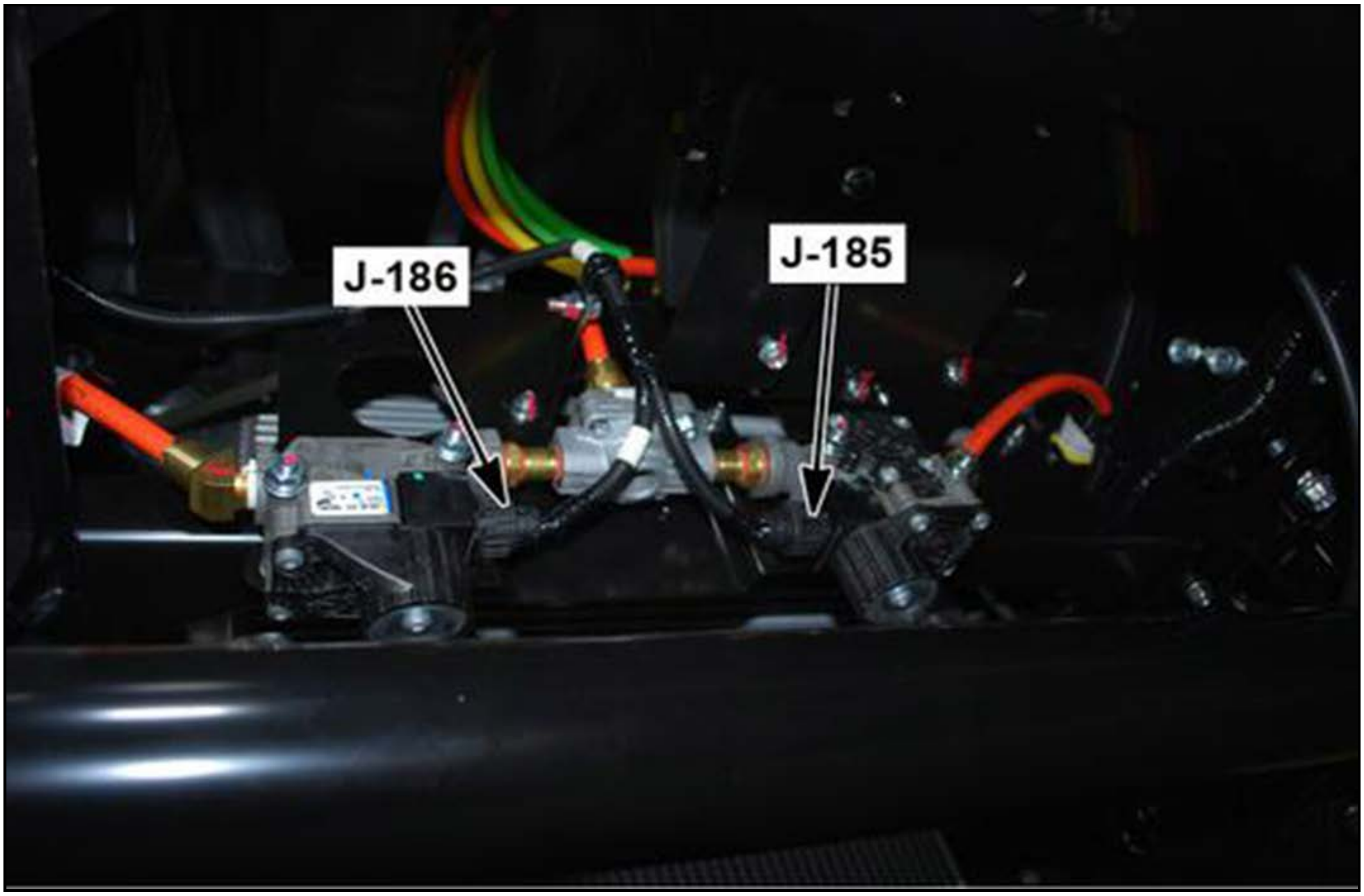
J-186 Pressure Modulator Valve (RF)



4893206

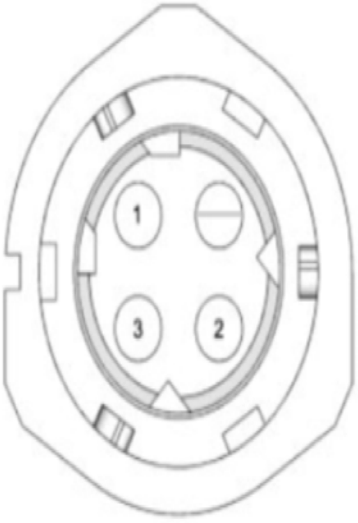
Connector Part Information	- 1-967325-2 - 3-Way F (BLK)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT/BLK	BB110L	Right Front Pressure Modulator Valve Release Control
2	PNK/BLK	BB109L	Right Front Pressure Modulator Valve Common (Low Reference)
3	WHT/RED	BB108L	Right Front Pressure Modulator Valve Hold Control

Front Frame Area of the Vehicle, in Front of the Radiator



4893229

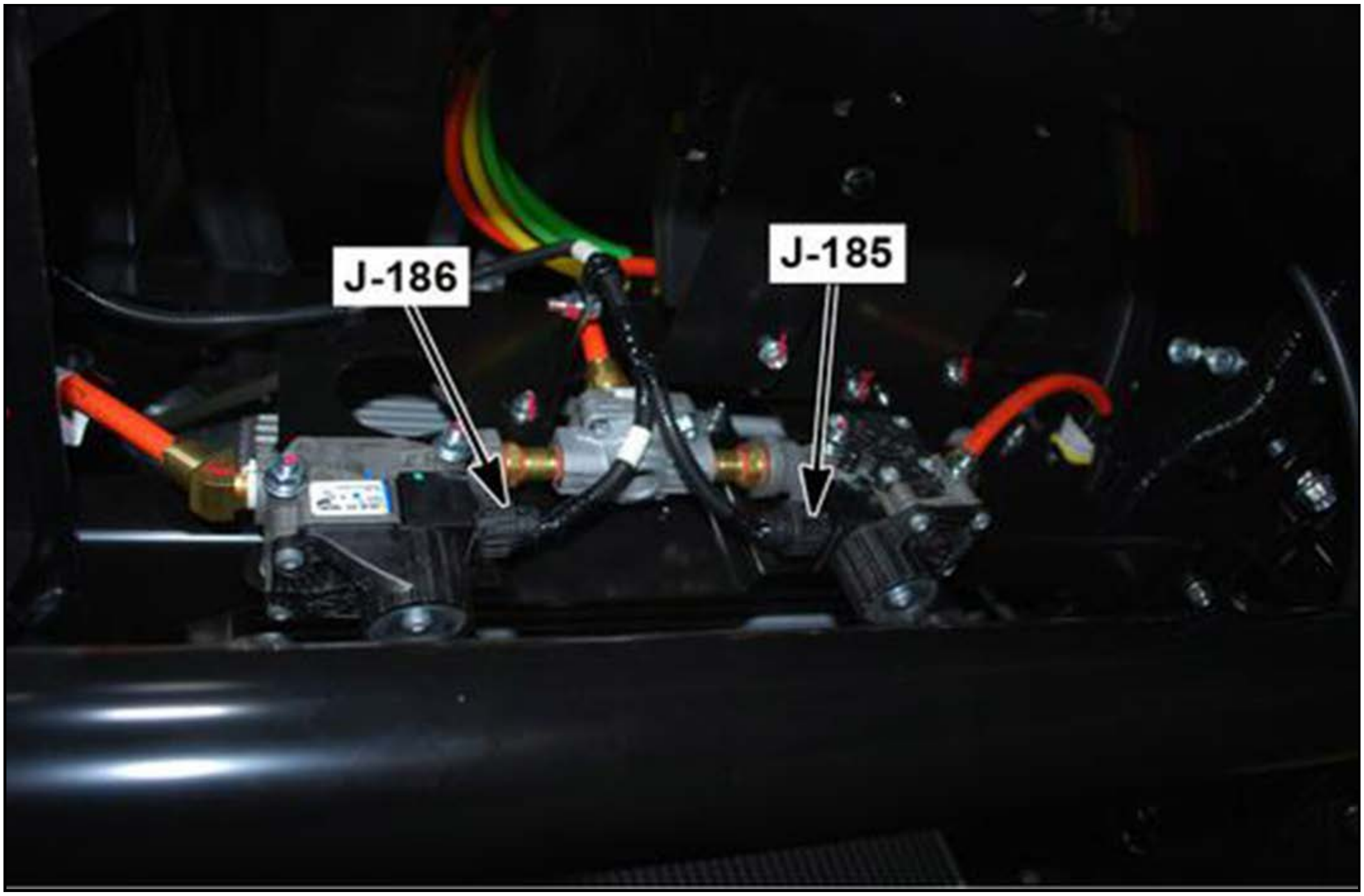
J-187 Pressure Modulator Valve (LR)



4893206

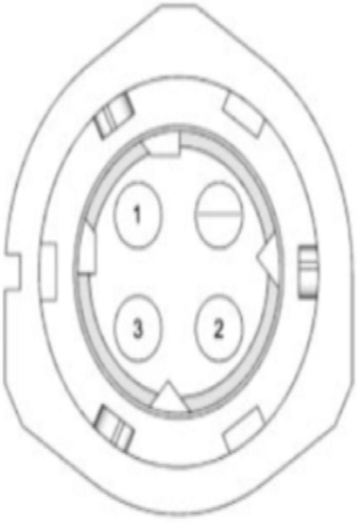
Connector Part Information		- 1-967325-2 - 3-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/BLU	BB115D	Left Rear Pressure Modulator Valve Release Control
2	BLK/WHT	BB114D	Left Rear Pressure Modulator Common (Low Reference)
3	WHT/BLU	BB113D	Left Rear Pressure Modulator Valve Hold Control

Front Frame Area of the Vehicle, in Front of the Radiator



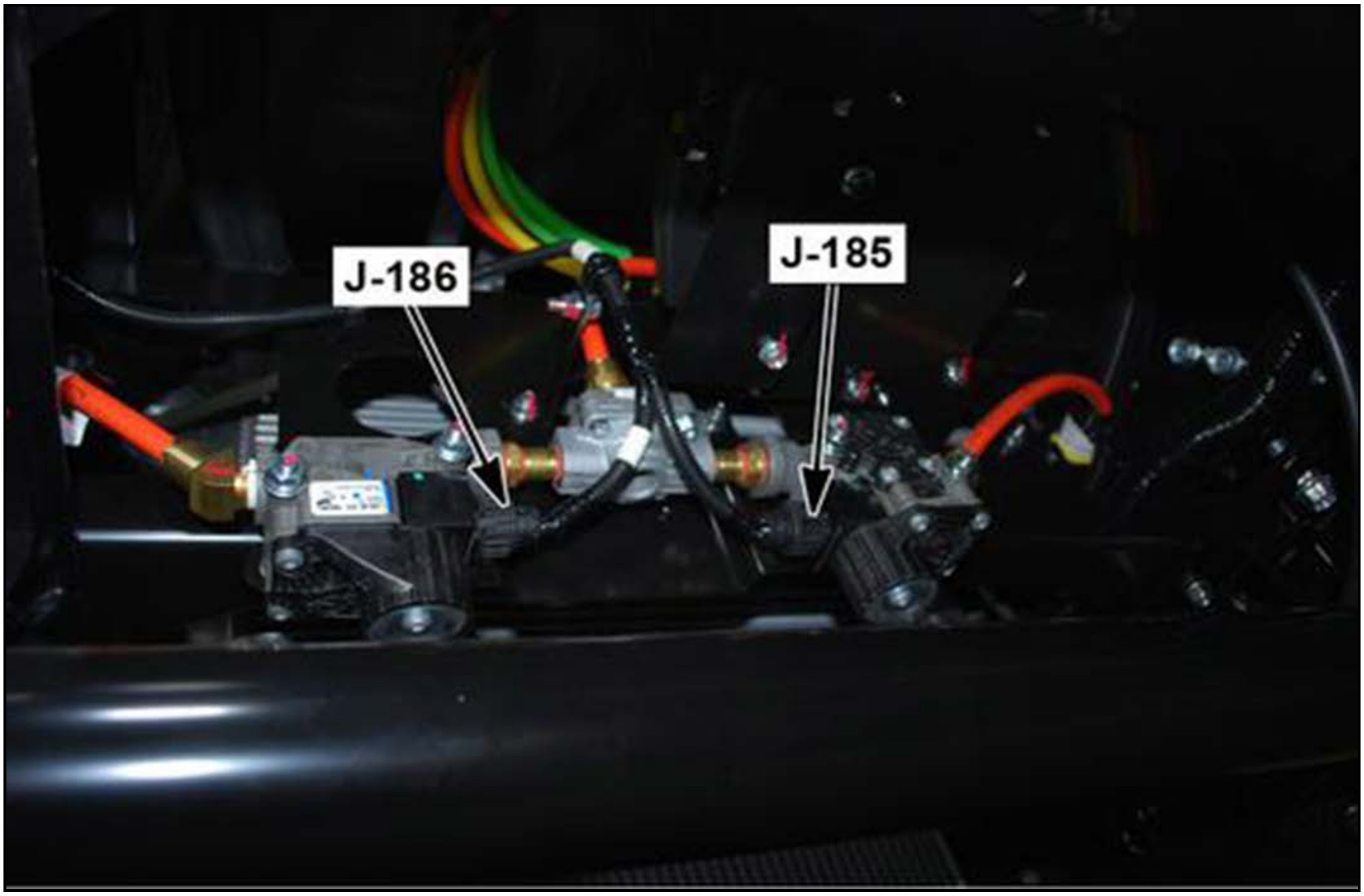
4893229

J-188 Pressure Modulator Valve (RR)



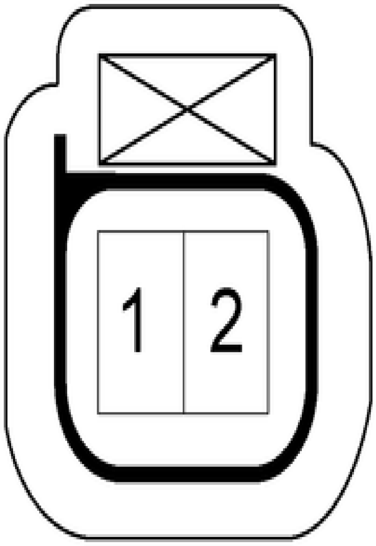
Connector Part Information		- 1-967325-2 - 3-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/GRN	BB120D	Right Rear Pressure Modulator Valve Release Control
2	BLK/ORN	BB119D	Right Rear Pressure Modulator Common (Low Reference)
3	WHT/GRN	BB118D	Right Rear Pressure Modulator Valve Hold Control

Front Frame Area of the Vehicle, in Front of the Radiator



4893229

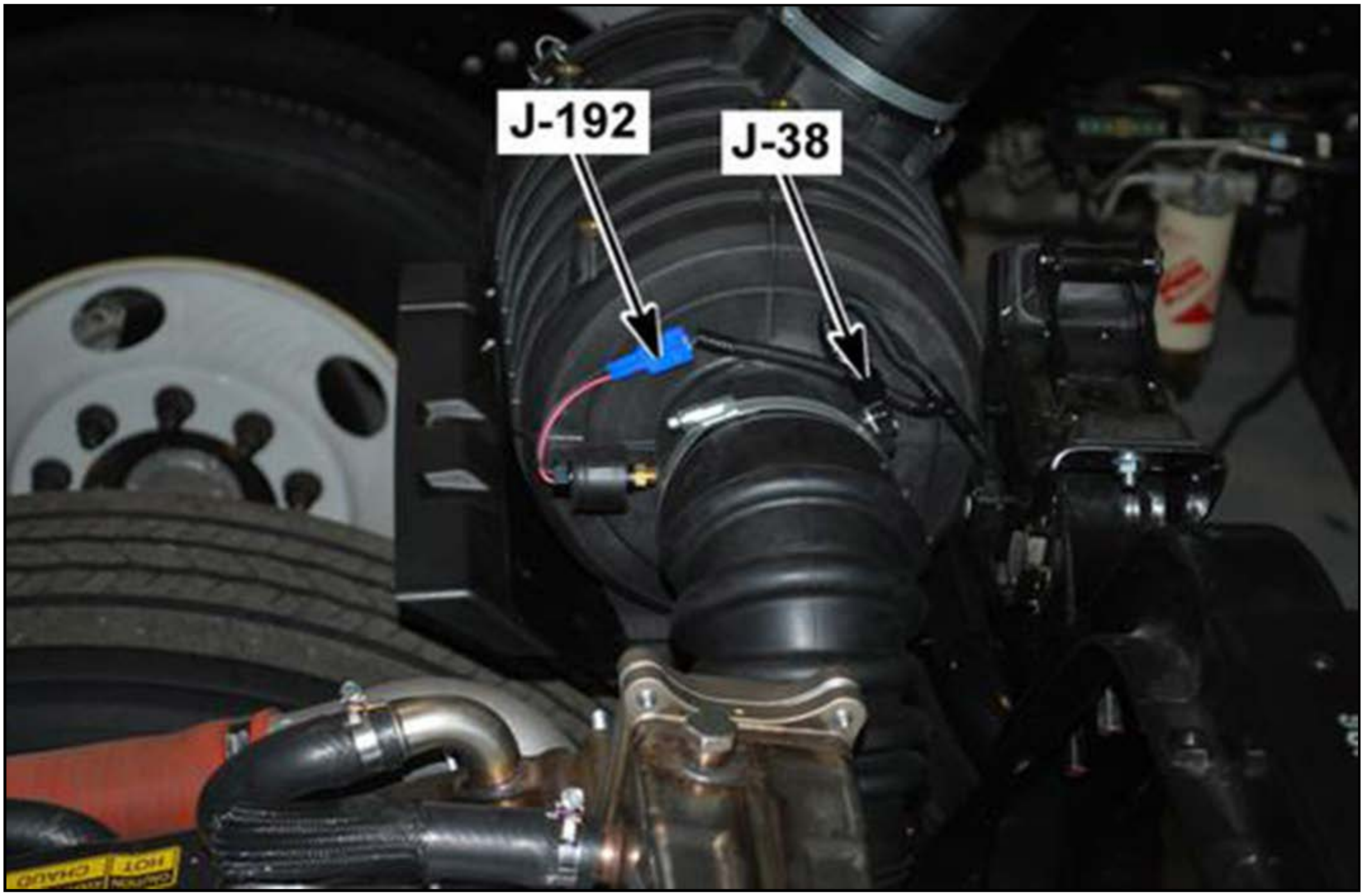
J-192 Air Filter Switch



4893298

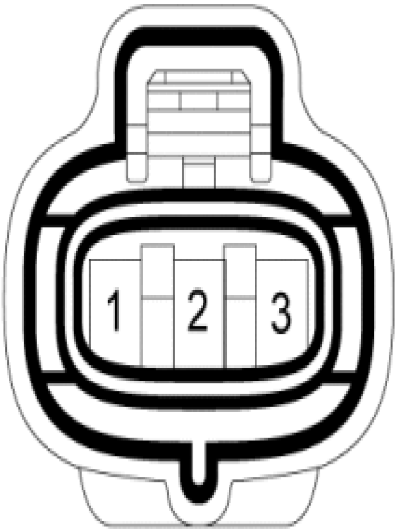
Connector Part Information	- X010326 - 2-Way F (BLU)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU/YEL	MA015K	Air Filter Switch Signal
2	BLK	MX007K	Ground to Splice 7 (J-10 and J-12 Grounds)

Outlet Side of the Air Filter Housing


J-192
J-38
HOT CHAUD
CAUTION

4892607

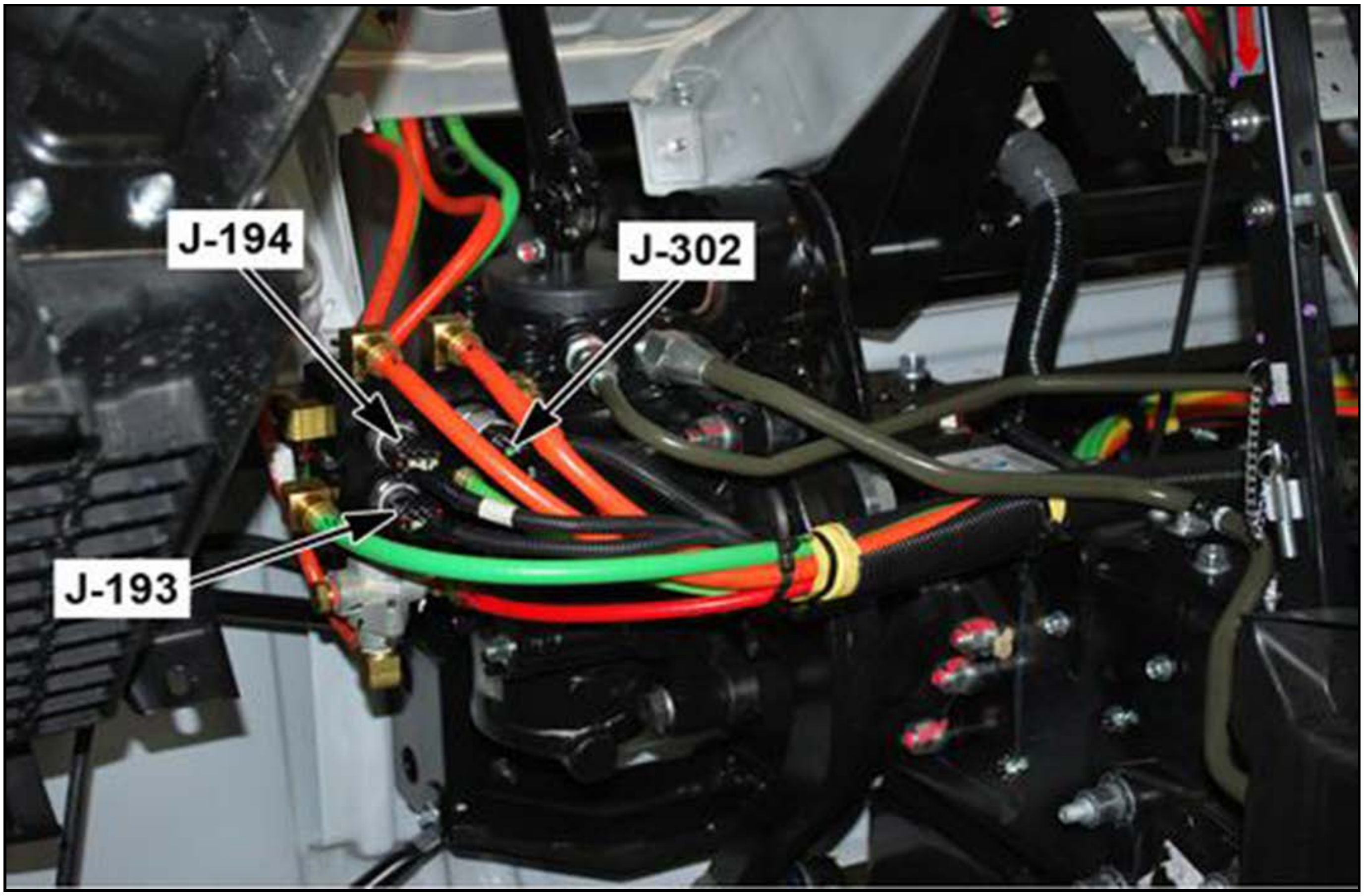
J-193 Air Pressure Sensor 1 (Primary)



4891773

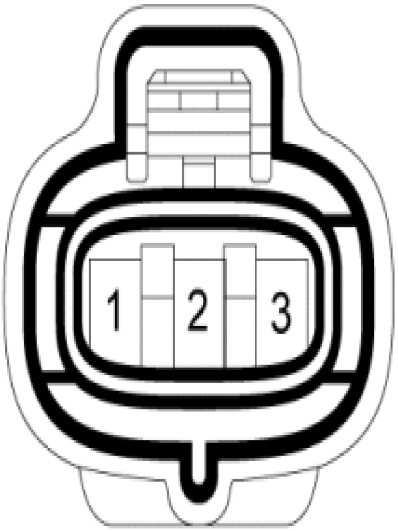
Connector Part Information		- 6189-0099 - 3-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT	MA087C	Low Reference
2	WHT/GRN	MA083C	Sensor Signal (Output)
3	WHT/BLU	MA088C	Sensor Voltage

Under the Left Front of the Cab, Left of the Steering Column



4893316

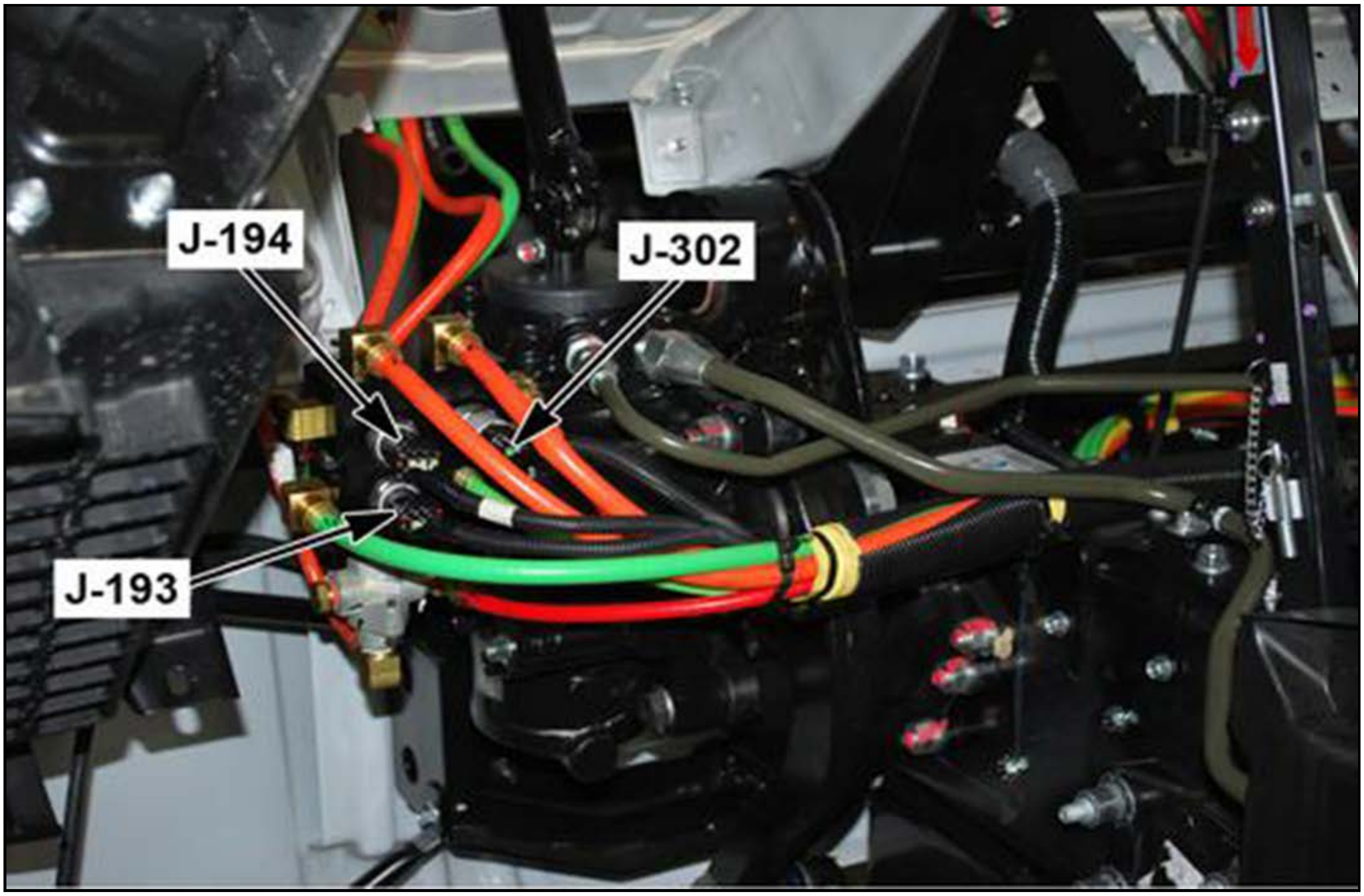
J-194 Air Pressure Sensor 2 (Secondary)



4891773

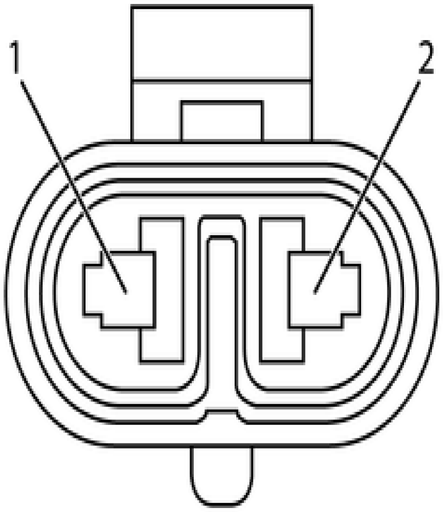
Connector Part Information		• 6189-0099 • 3-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT	MA089C	Low Reference
2	WHT/RED	MA084C	Sensor Signal (Output)
3	WHT/BLU	MA090C	Sensor Voltage

Under the Left Front of the Cab, Left of the Steering Column



4893316

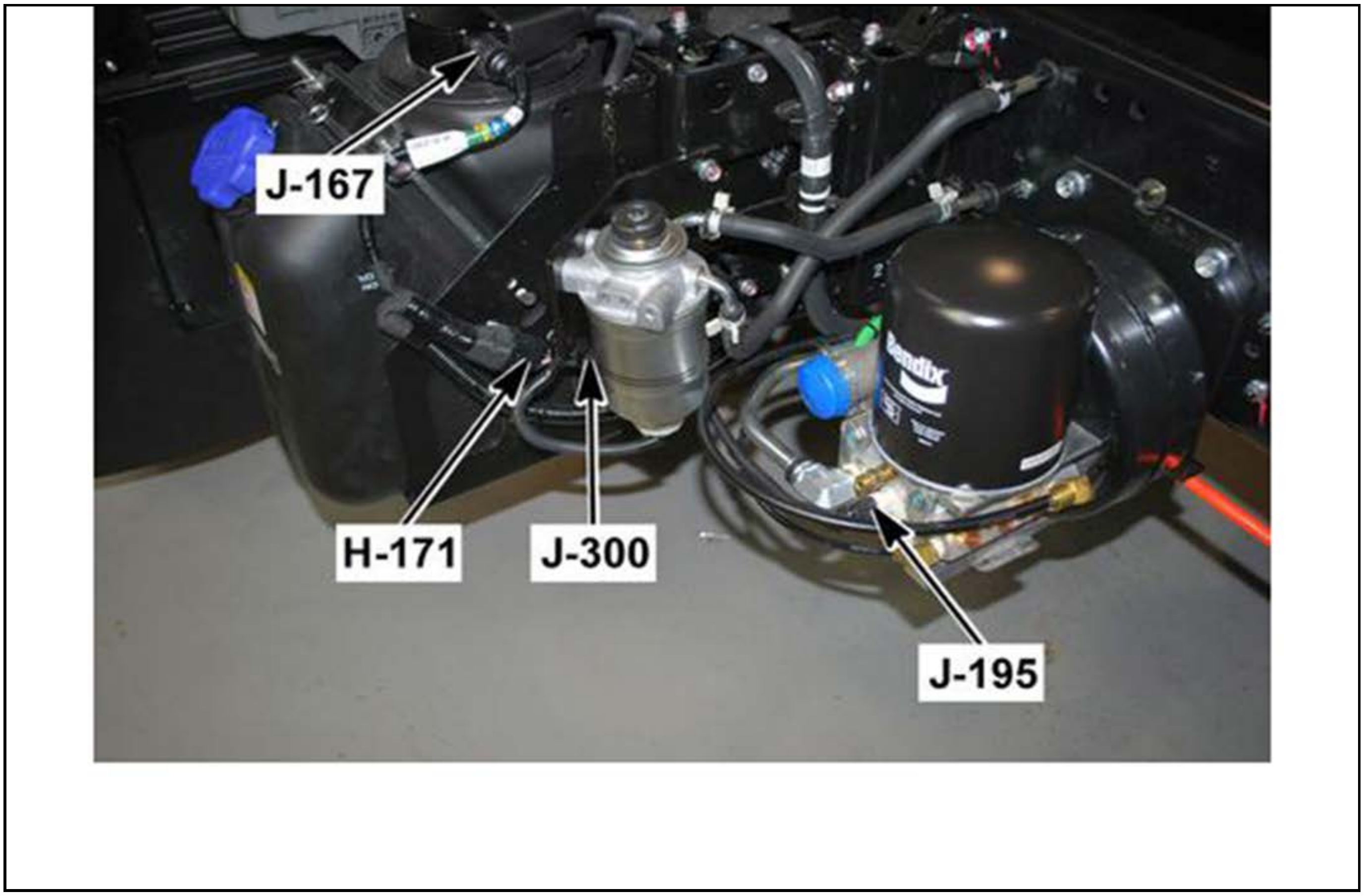
J-195 Air Dryer



4893352

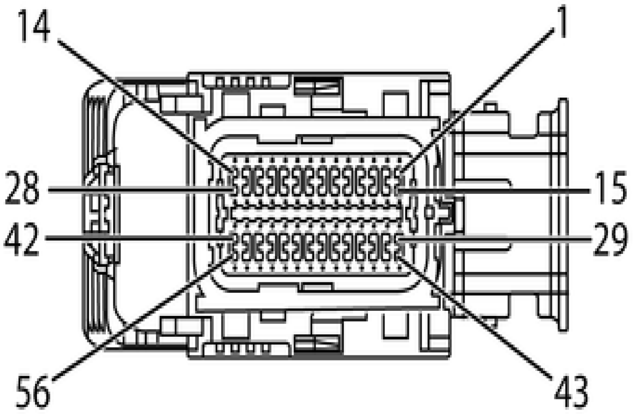
Connector Part Information		- 1202-0599 - 2-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLU/YEL	DA005C	Ignition Voltage from Fuse F-16 from Fuse/Relay Center (Cab)
2	BLK	DX001C	Ground to Splice S5 (J-7 and J-9 Ground)

Left Side of the Frame, on the Air Dryer


J-167
H-171
J-300
J-195

4893104

J-203 Engine Control Module (ECM)

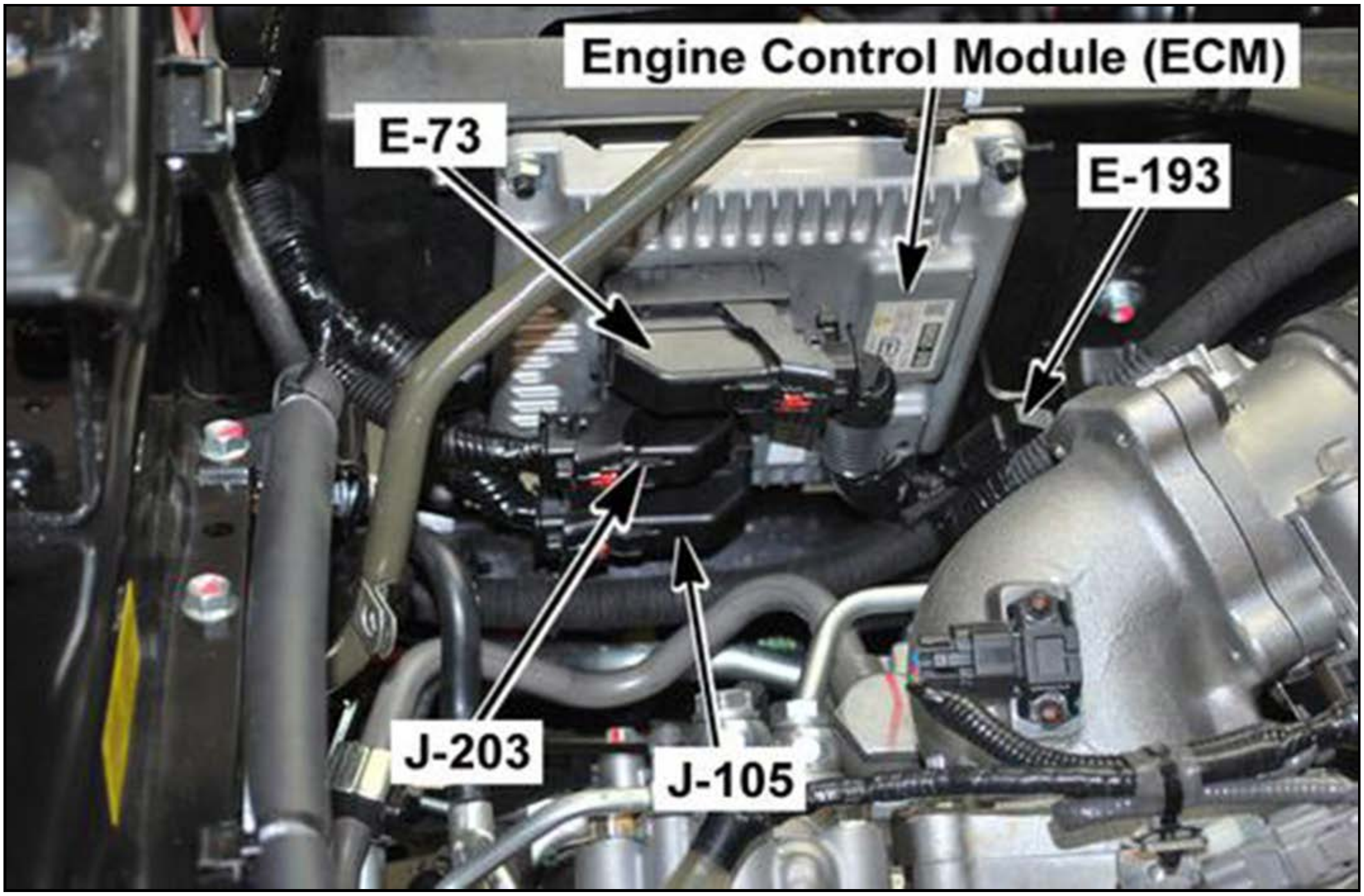


4893380

Connector Part Information		• 34576-0703 • 56-Way F (BLU)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1–3	—	—	Not Used
4	BRN/WHT	IC154C	EOP Sensor Signal
5	BLU/ORN	IC115C	Turbocharger Outlet Air Temperature Sensor Signal
6–9	—	—	Not Used
10	BLU/BLK	IC068C	IAT Sensor 1 Signal
11	WHT	IC026C	MAF Sensor Signal
12	WHT/GRN	IC076C	Exhaust Brake Valve Solenoid Control
13	—	—	Not Used
14	BLK	IC027C	MAF Sensor Low Reference
15–16	—	—	Not Used
17	WHT	IC216C	CAC Temperature Sensor Signal
18	WHT/ORN	IC135C	DPF Fuel Pressure Sensor Signal
19	RED	IC012C	EGT Sensor 2 Signal
20	VIO/YEL	IC052C	EGT Sensor 2 Low Reference
21–23	—	—	Not Used
24	VIO/WHT	IC121C	IAF Valve Position Sensor Signal
25	—	—	Not Used
26	VIO/GRN	IC080C	EGT Sensor 1 Low Reference
27	YEL/RED	IC079C	EGT Sensor 1 Signal
28	—	—	Not Used
29	YEL/BRN	IC153C	EOP Sensor 5 Volt Reference 4 Voltage
30–33	—	—	Not Used
34	34 ORN	IC116C	Turbocharger Outlet Air Temperature Sensor Low Reference
35–40	—	—	Not Used
41	YEL/RED	IC120C	IAF Valve Position Sensor 5 Volt Reference 4 Voltage
42	—	—	Not Used

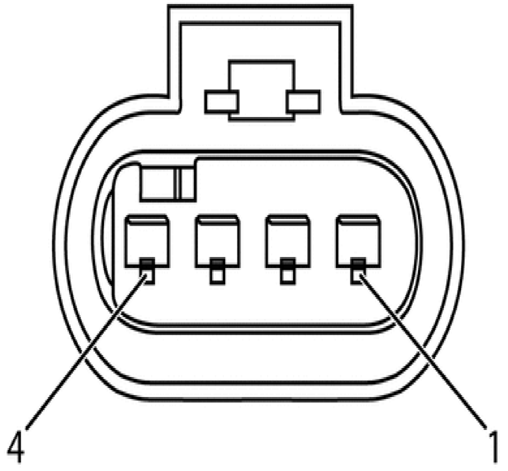
Connector Part Information		• 34576-0703 • 56-Way F (BLU)	
Pin	**Wire Color**	**Circuit Number**	**Function**
43	LT GRN	IC134C	DPF Fuel Pressure Sensor 5 Volt Reference 3 Voltage
44–45	—	—	Not Used
46	PNK	IC155C	EOP Sensor Low Reference
47	—	—	Not Used
48	YEL/BLK	IC136C	DPF Fuel Pressure Sensor Low Reference
49	BLU/RED	IC096C	IAT Sensor 1 Low Reference
50–51	—	—	Not Used
52	BLU/BLK	IC122C	IAF Valve Position Sensor Low Reference
53–55	—	—	Not Used
56	56 WHT/BLU	IC217C	CAC Temperature Sensor Low Reference

Left Side of the Engine, in Front of the Rear Cab Mount


Engine Control Module (ECM)
E-73
E-193
J-203
J-105

4891795

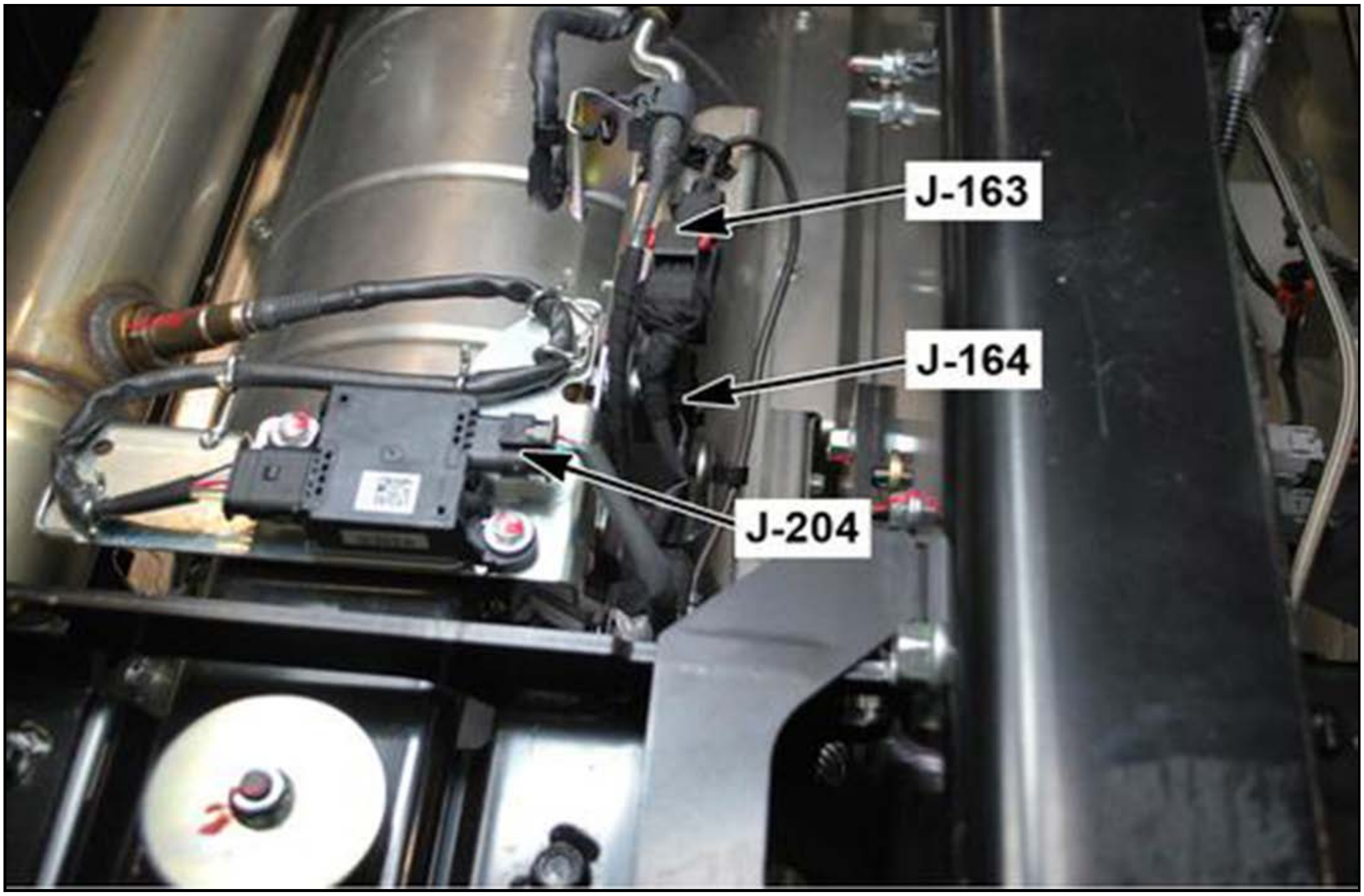
J-204 Particulate Matter Sensor



4893384

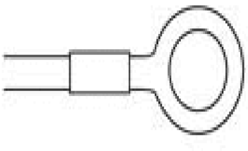
Connector Part Information		• 1-1718645-1 • 4-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	IZ018K	Ground to Splice 7 (J-10 and J-12)
2	GRN	TF054K	ISO 15765 CAN 2 Low
3	GRN/WHT	TF053K	ISO 15765 CAN 2 High
4	BLK/ORN	IC018K	Ignition Voltage from Fuse F-35

Right Outer Frame Rail, On the Front of the SCR Catalyst



4893034

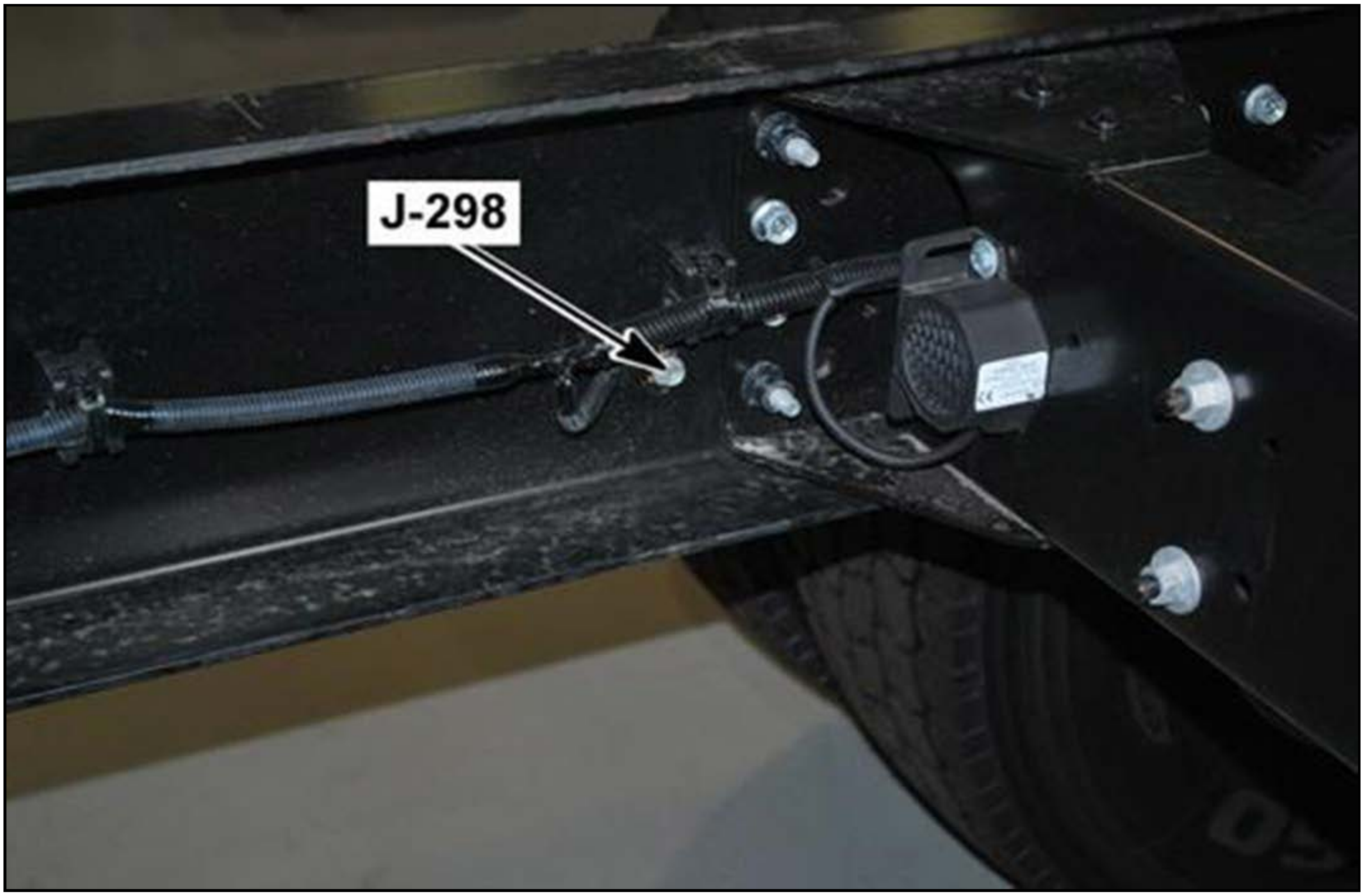
J-298 Ground



4891426

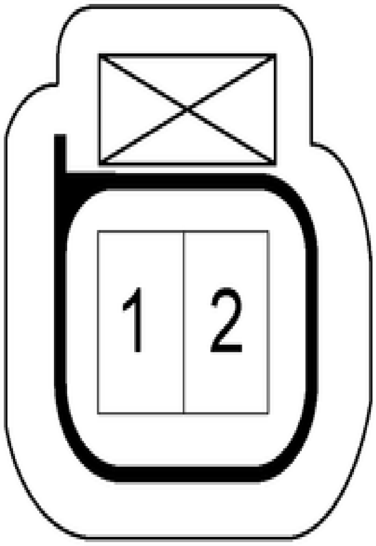
Connector Part Information		- 7009-1334 - 1-Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK/BLU	IX013D	Ground for Rear Manufacture Connector

Left Rear Frame Rail, Behind the Rear Axle



4893394

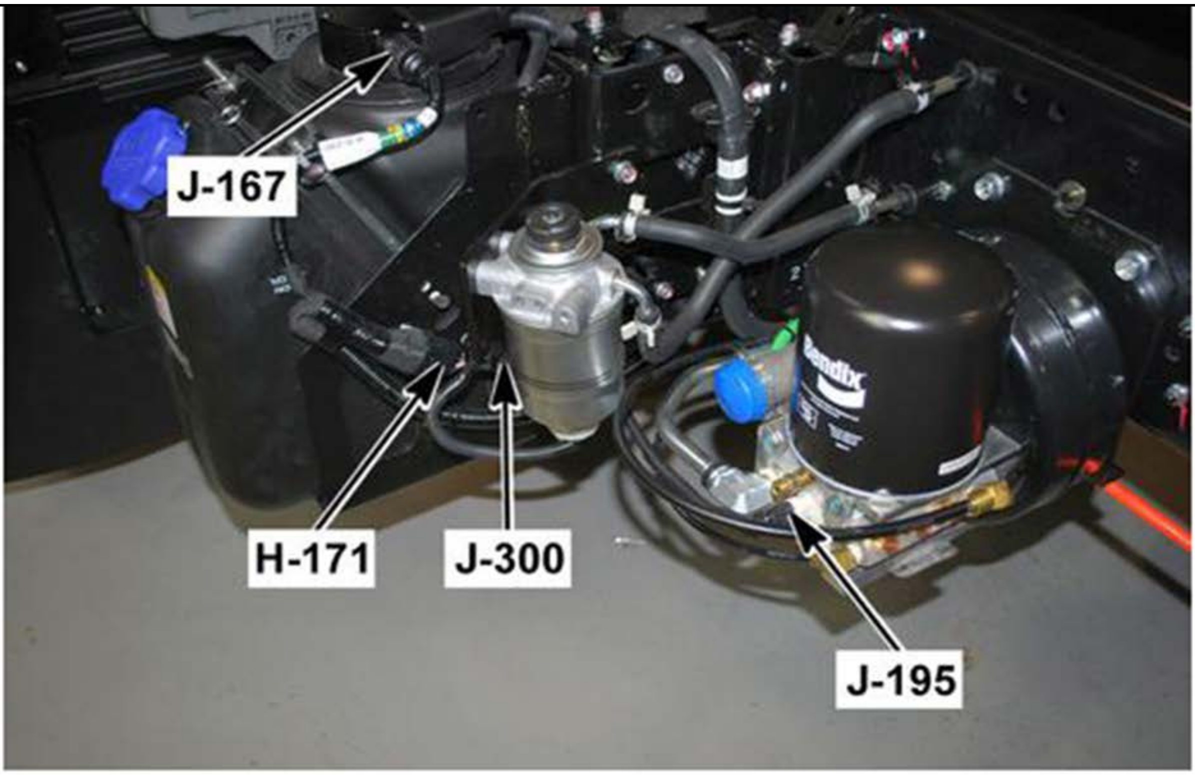
J-300 Fuel Sedimenter Switch



4893298

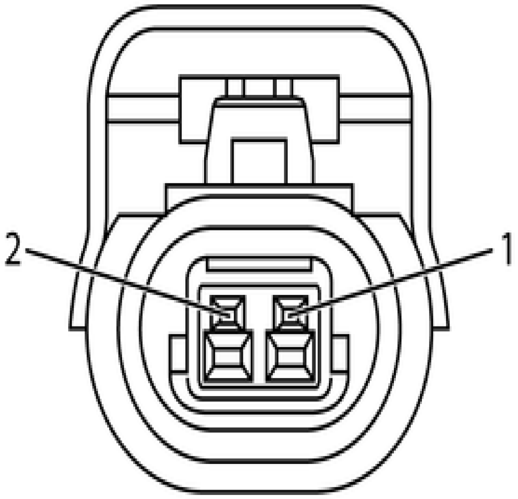
Connector Part Information		- X010325 - 2-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK	MX009C	Ground to Splice 2 (J-8 and J-11 Ground)
2	BRN/WHT	MA009C	Water Separator Message Control

Side of the Fuel Filter Housing, Behind the DEF Tank


J-167
H-171
J-300
J-195

4892010

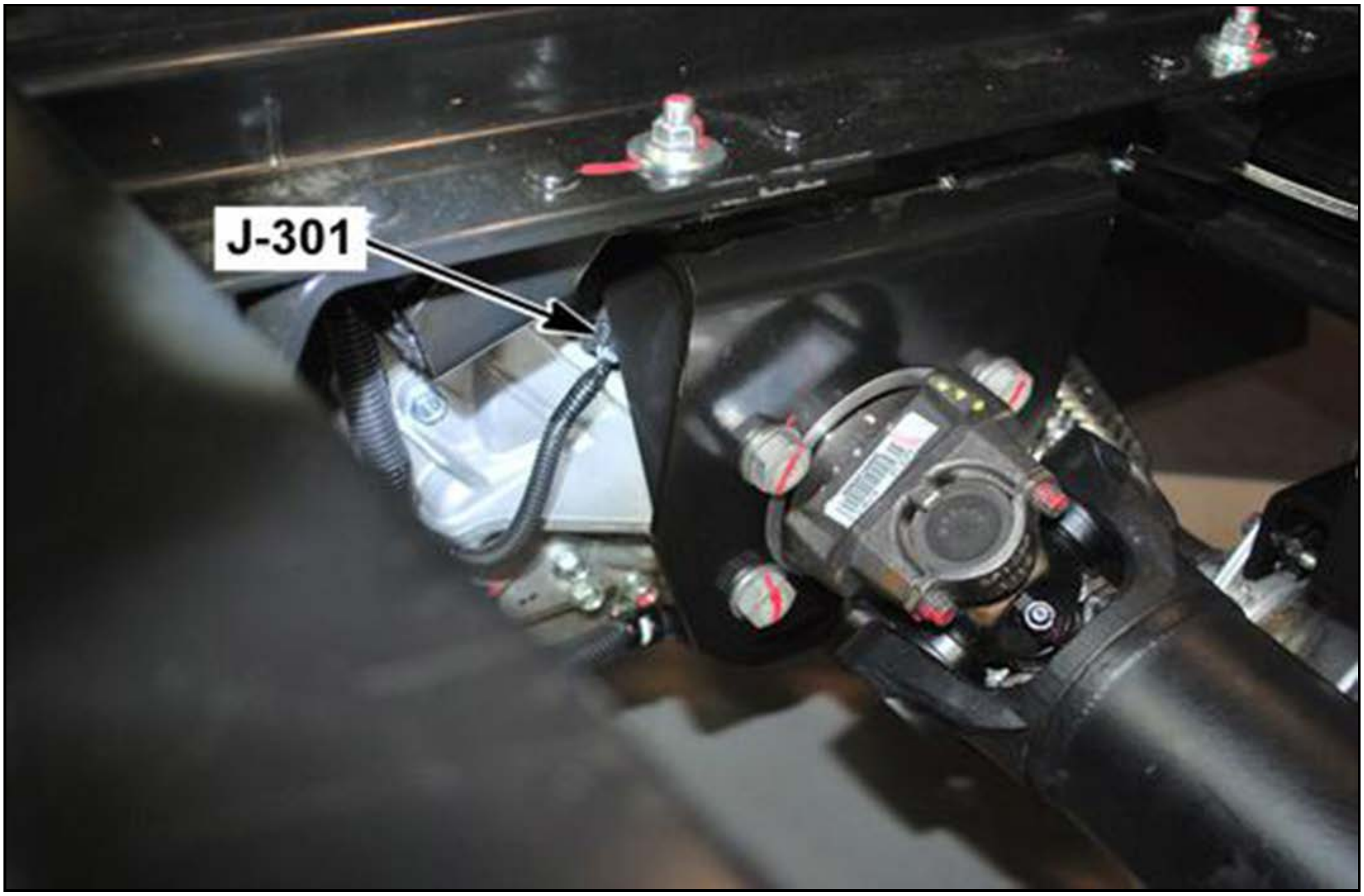
J-301 Output Shaft Speed (OSS) Sensor



4892796

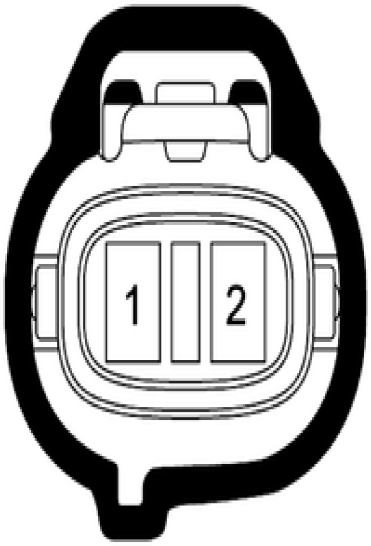
Connector Part Information		• 13520101 • 2-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT/BLU	OA063C	Output Shaft Speed (OSS) Sensor Signal
2	BLK/BLU	OA062C	Output Shaft Speed (OSS) Sensor 5-Volt Supply

Left Rear of the Transmission



4893412

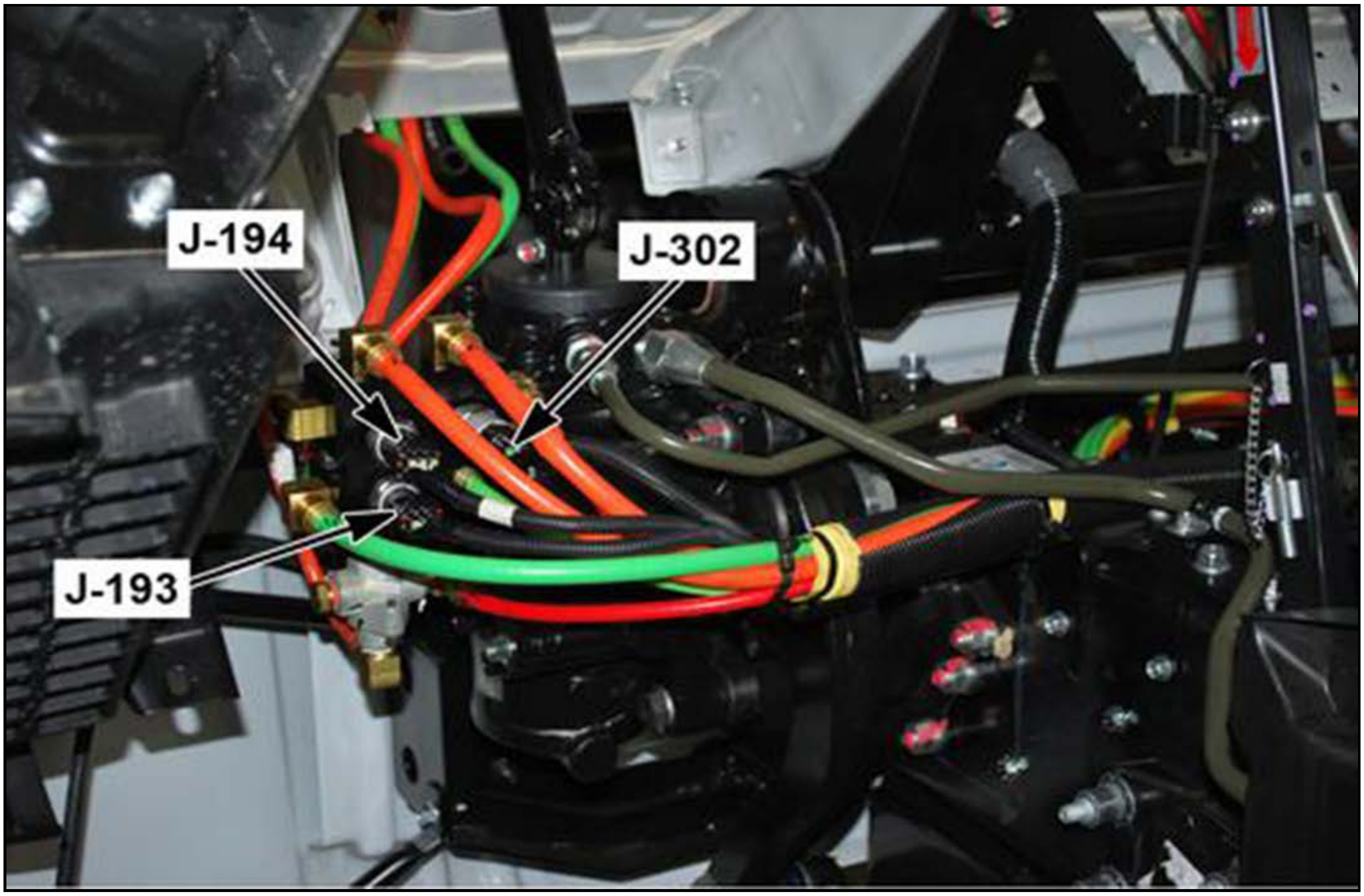
J-302 Stop Lamp Switch 2



4893428

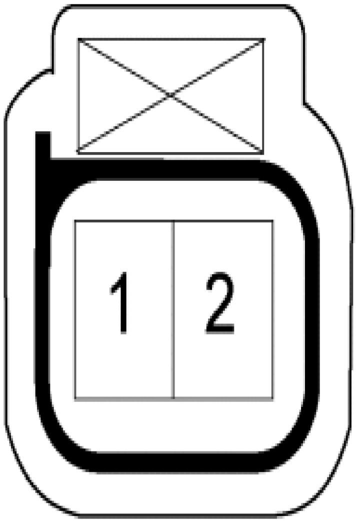
Connector Part Information	- 6189-0239 - 2-Way F (BLK)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/WHT	IC190C	Stop Lamp Relay (Coil Control)
2	BLK	IZ040C	Ground to Splice 5 (J-9 and J-7 Ground)

Under the Left Front of the Cab, Left of the Steering Column



4893316

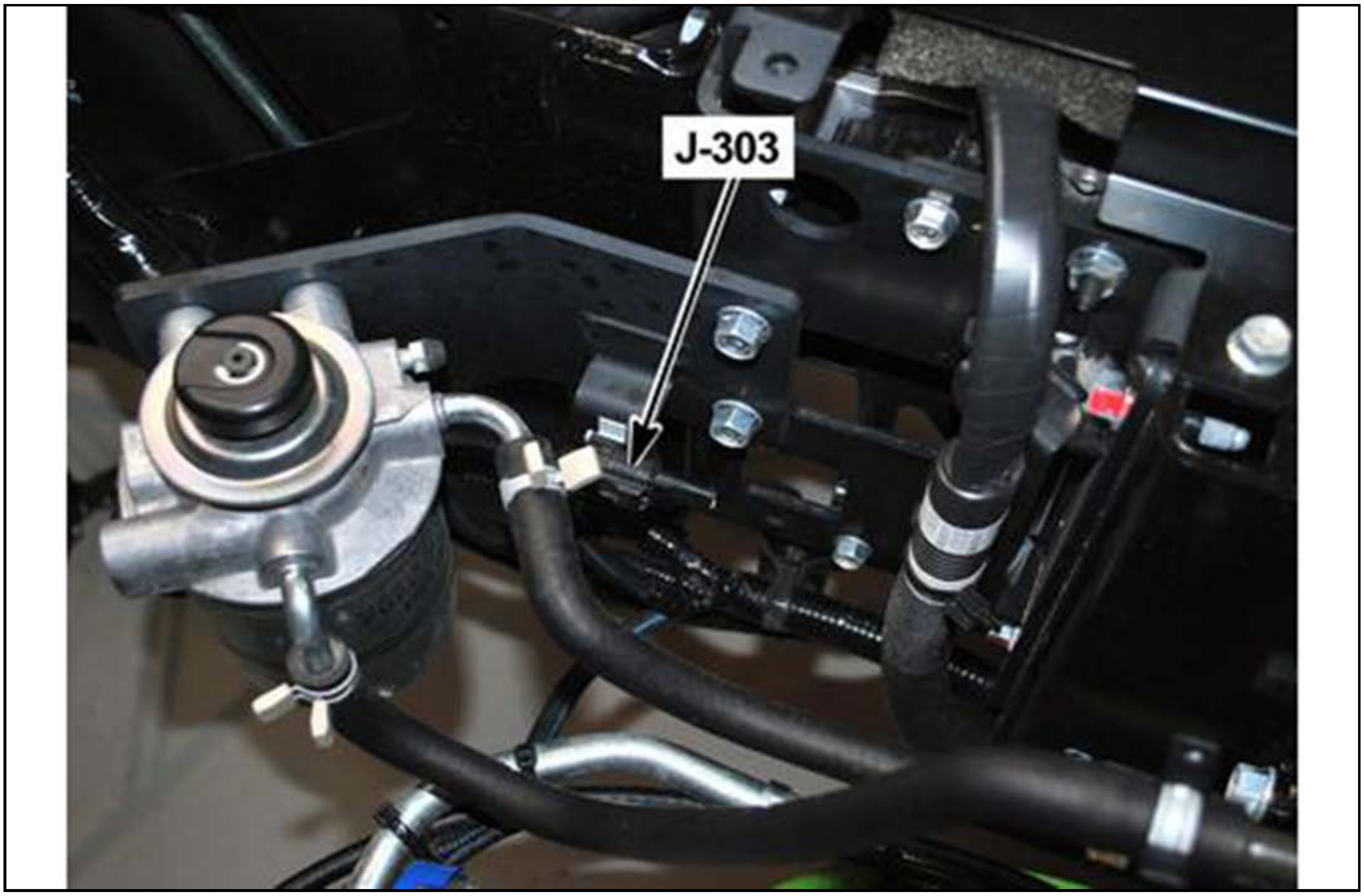
J-303 Fuel Heater



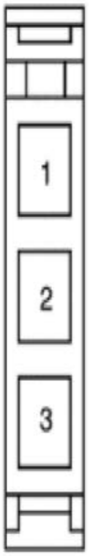
4891455

Connector Part Information		• X010325 • 2-Way F (BLK)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK/RED	LB006C	Switched Output Voltage from the X-30 Fuel Heater Relay
2	BLK	LY003C	Ground to Splice 2 (J-11 and J-8 Ground)

Between the DEF tank and the Air Brakes Air Dryer, on the Left Side of the Frame



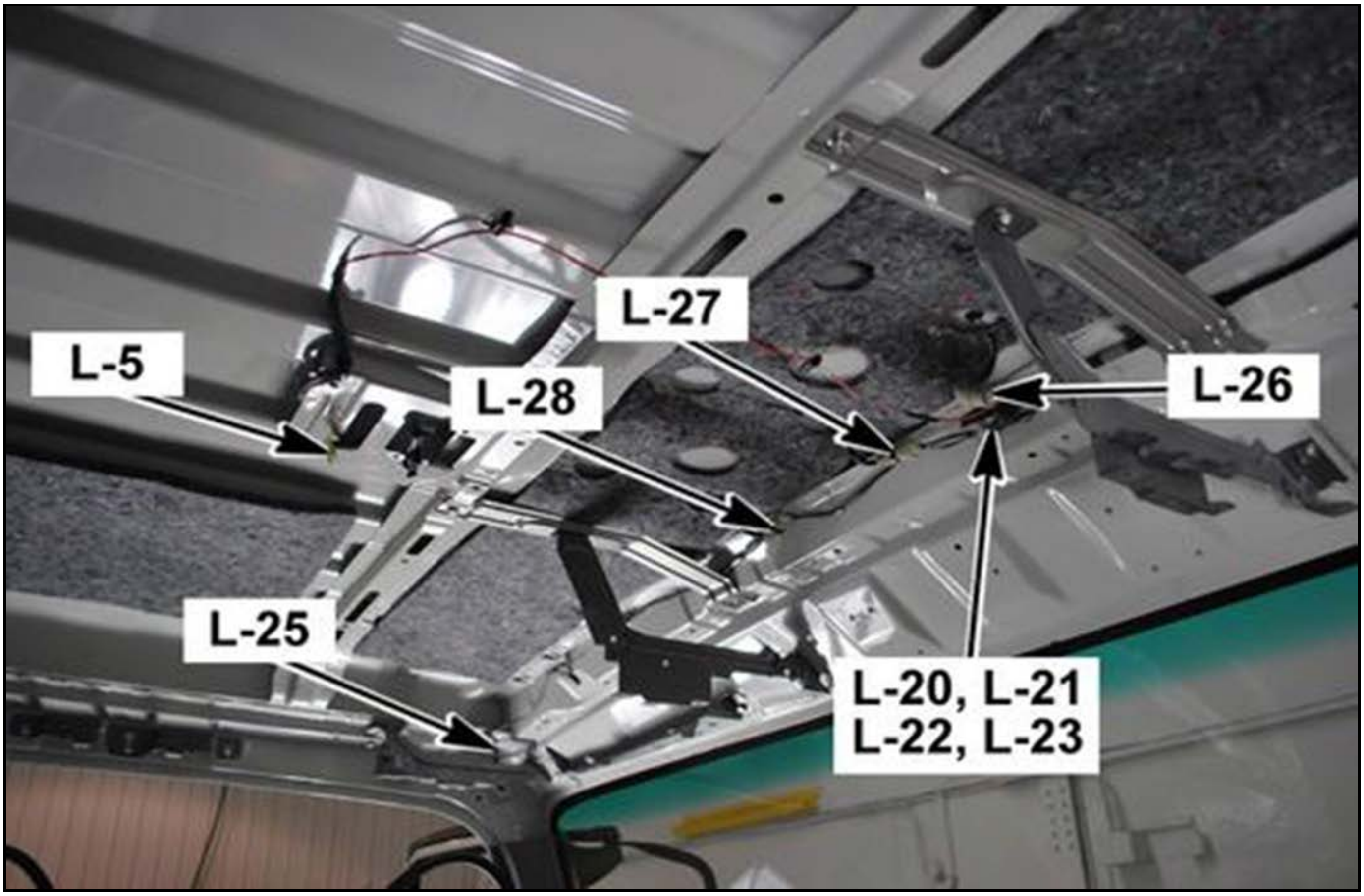
L-5 Dome Lamp



4893464

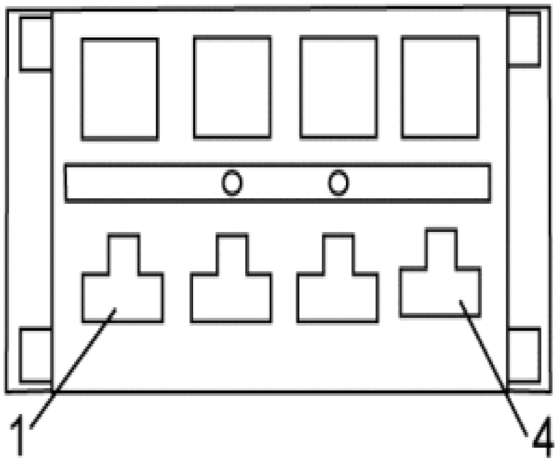
Connector Part Information		• 6430-3041 • 3-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRY/BLU	IA14	Dome Light Control
2	RED	IA04	Battery Voltage from Fuse F-3
3	—	—	Not Used

In the Interior Center of the Roof


L-27
L-5
L-28
L-26
L-25
L-20, L-21
L-22, L-23

4893525

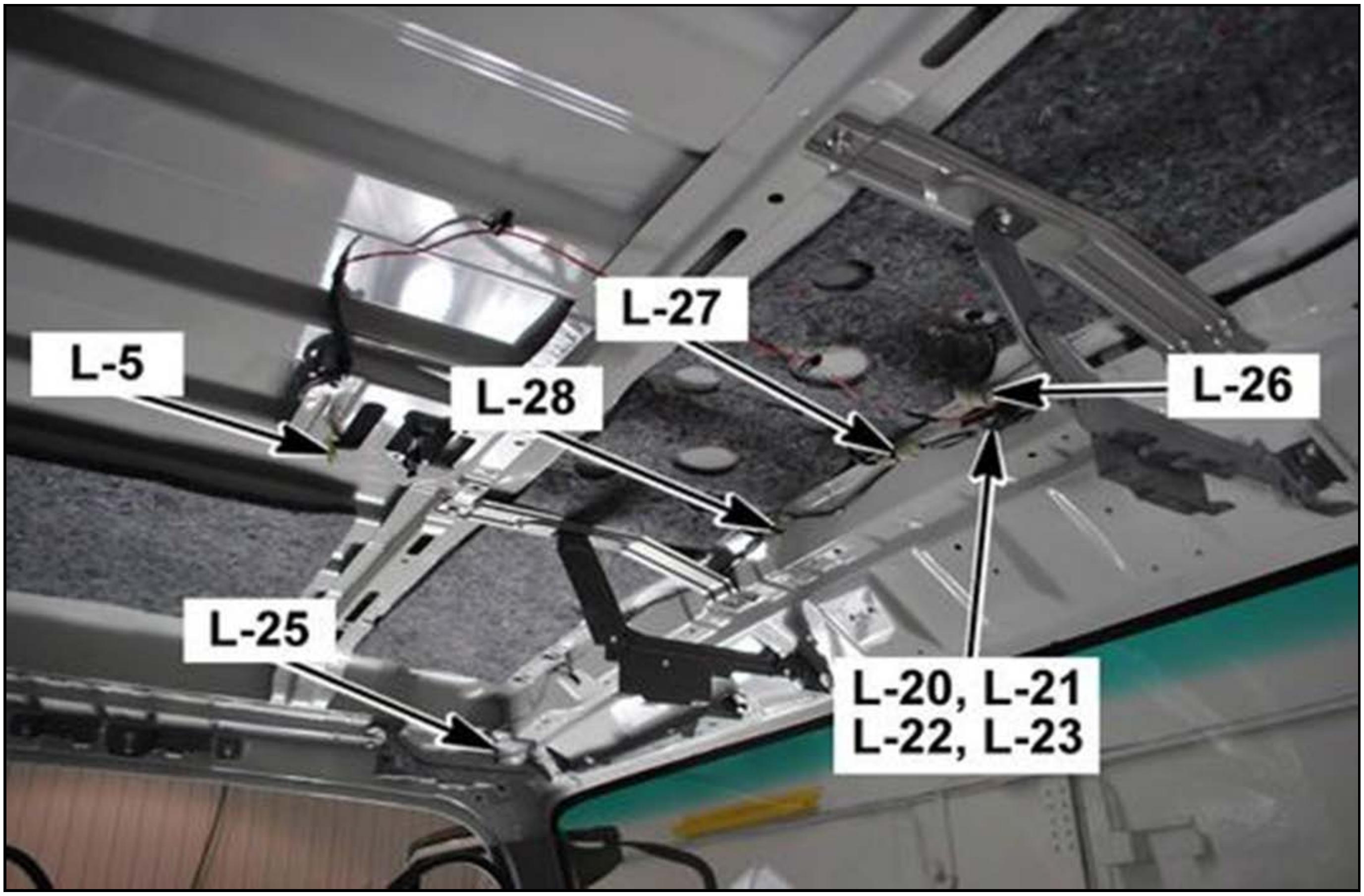
L-20 Splice Pack



4890929

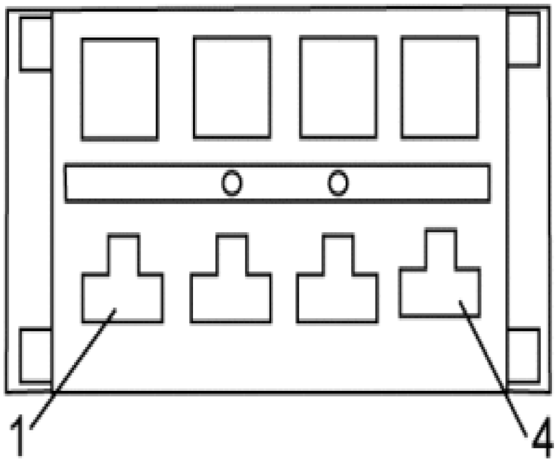
Connector Part Information		• 7383-3190 • 4-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/RED	BA55	Fuse F-27 Voltage (Headlamp Switch ON) to Clearance Lamp 3
2	GRN/RED	BA54	Fuse F-27 Voltage (Headlamp Switch ON) to Clearance Lamp 2
3	GRN/RED	BA56	Fuse F-27 Voltage (Headlamp Switch ON) to Marker Lamp 1
4	GRN/RED	BA58	Fuse F-27 Voltage (Headlamp Switch ON) from L-23 Splice Pack

In the Interior Center Front of the Roof


L-27
L-5
L-28
L-26
L-25
L-20, L-21
L-22, L-23

4893525

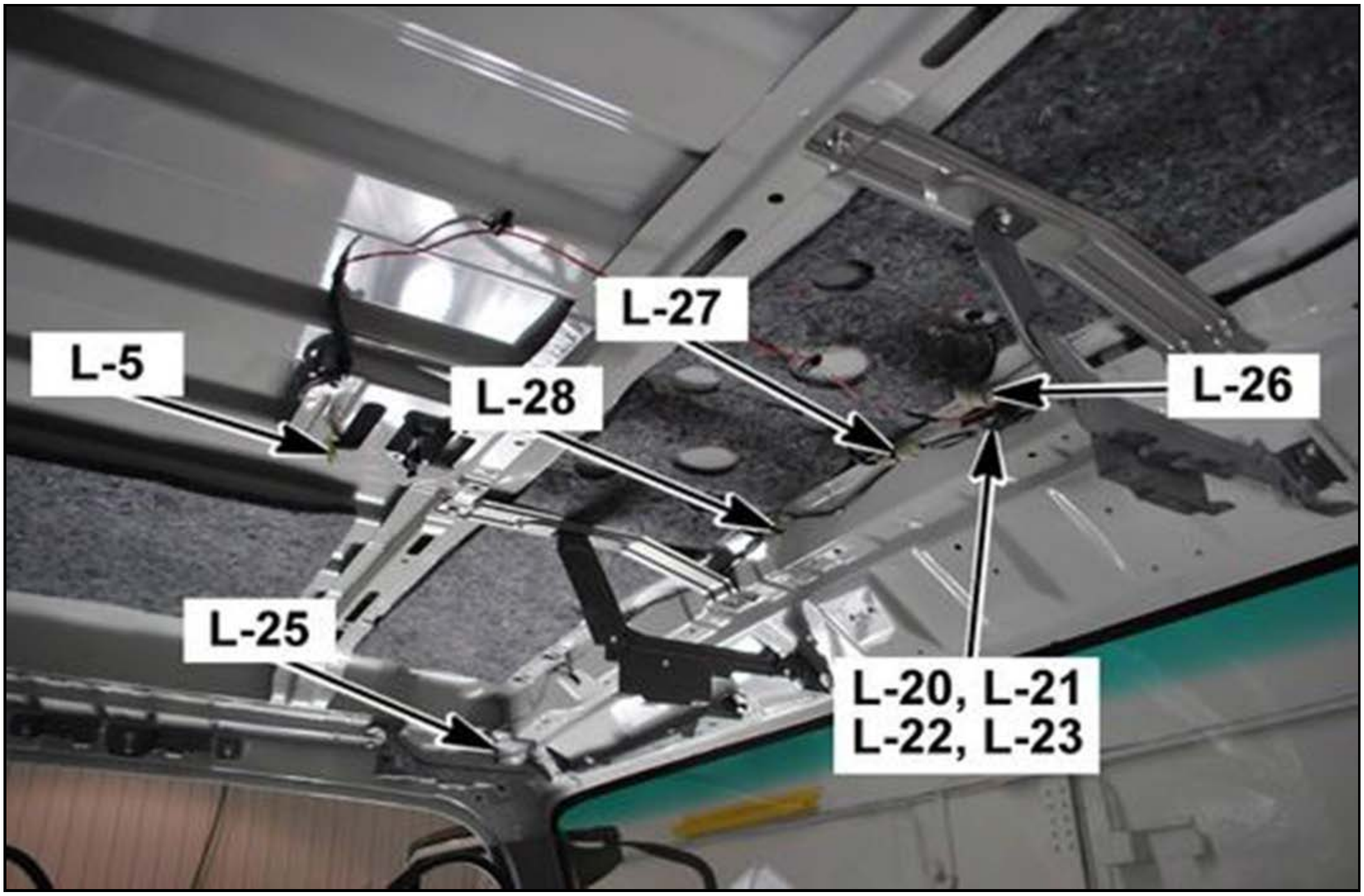
L-21 Splice Pack



4890929

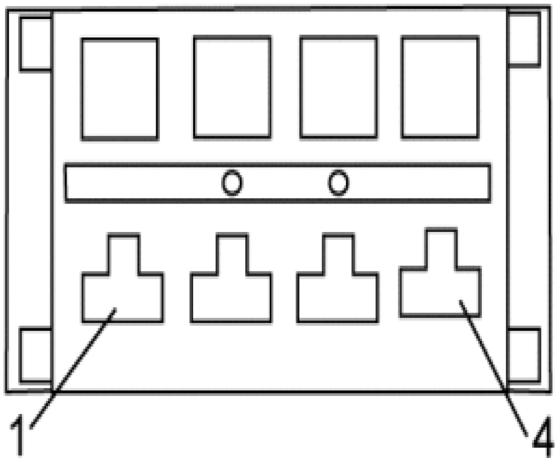
Connector Part Information		• 7383-3190 • 4-Way F (WHT)	
Pin	Wire Color	Circuit Number	Function
1	BLK	BX35	Ground to Clearance Lamp 3
2	BLK	BX34	Ground to Clearance Lamp 2
3	BLK	BX36	Ground to Marker Lamp 1
4	BLK	BX38	Ground to L-22 Splice Pack

In the Interior Center Front of the Roof


L-27
L-5
L-28
L-26
L-25
L-20, L-21
L-22, L-23

4893525

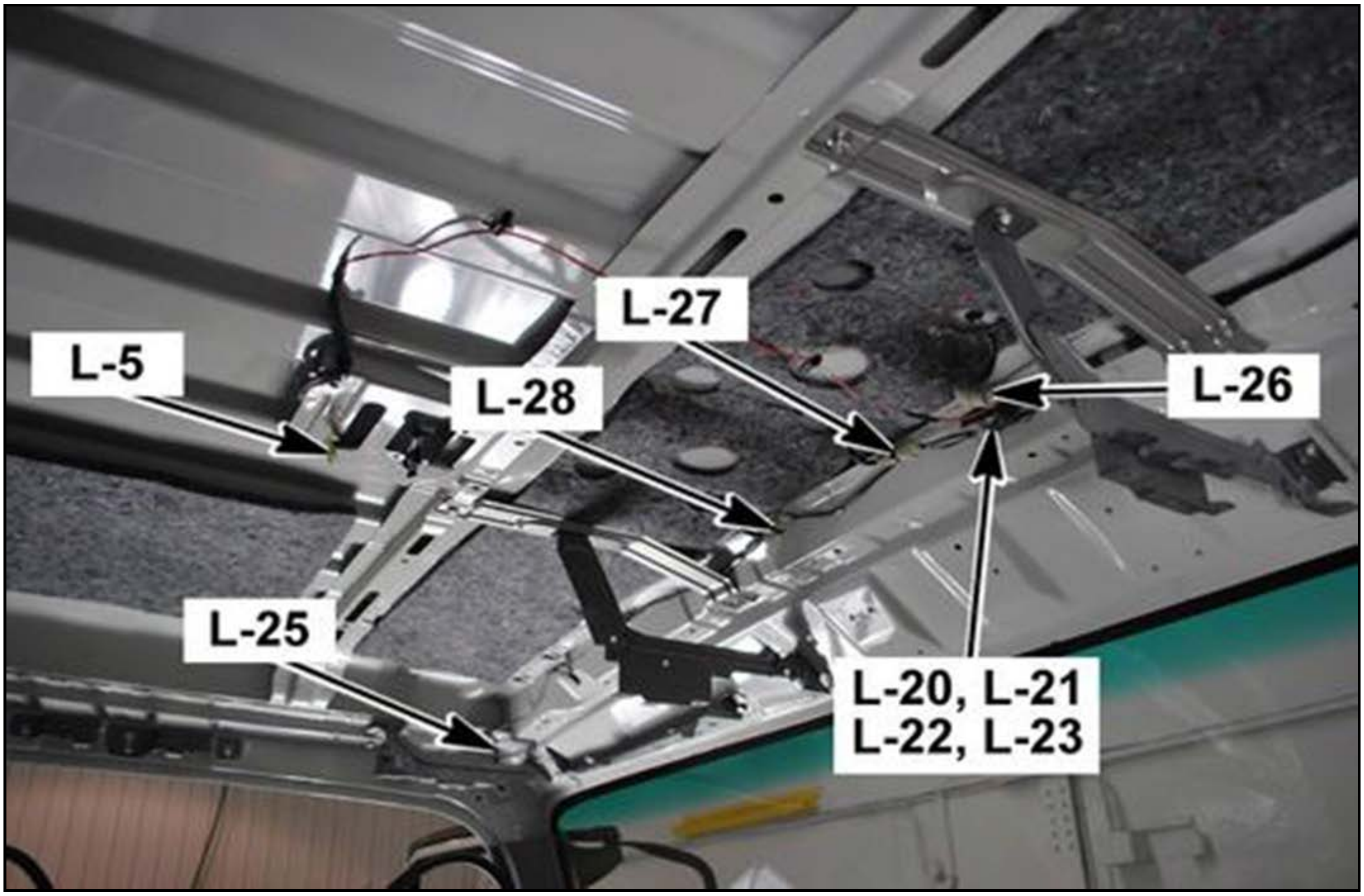
L-22 Splice Pack



4890929

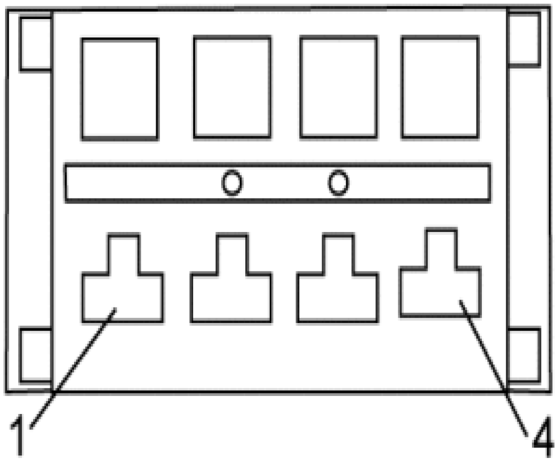
Connector Part Information		• 7383-3190 • 4-Way F (WHT)	
Pin	Wire Color	Circuit Number	Function
1	BLK	BX33	Ground to Clearance Lamp 1
2	BLK	BX32	Ground to Marker Lamp 2
3	BLK	BX38	Ground to Splice Pack L-21
4	BLK	BX37	Ground to J/B 2 (B-145 pin 15) (B-53 Ground)

In the Interior Center Front of the Roof


L-27
L-5
L-28
L-26
L-25
L-20, L-21
L-22, L-23

4893525

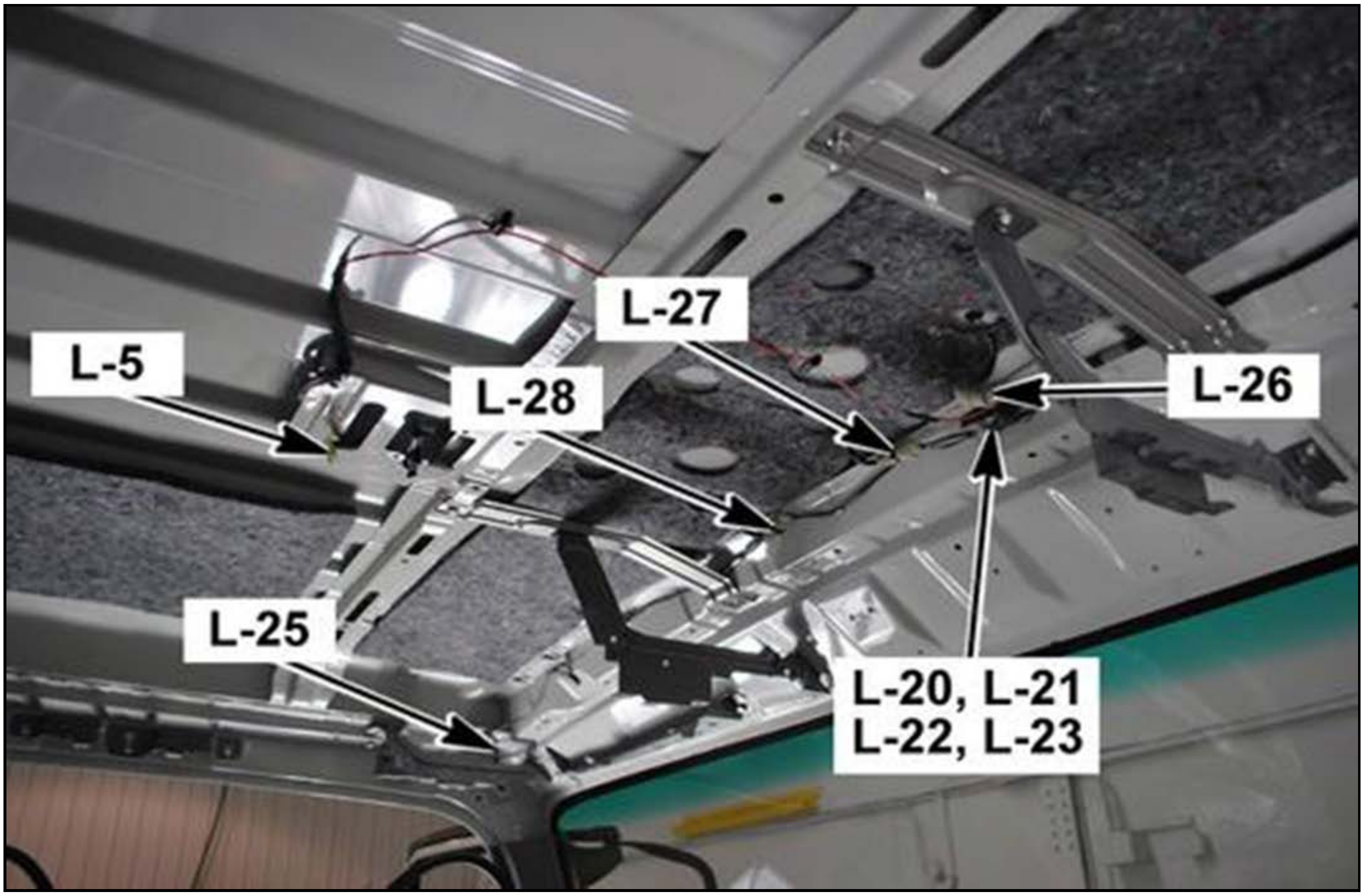
L-23 Splice Pack



4890929

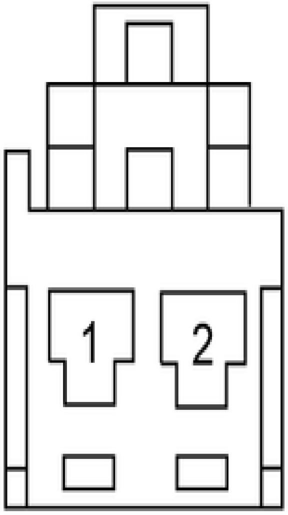
Connector Part Information		- 7383-3190 - 4-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/RED	BA53	Fuse F-27 Voltage (Headlamp Switch ON) to Clearance Lamp 1
2	GRN/RED	BA52	Fuse F-27 Voltage (Headlamp Switch ON) to Marker Lamp 2
3	GRN/RED	BA58	Fuse F-27 Voltage (Headlamp Switch ON) to L- 20 Splice Pack
4	GRN/RED	BA57	Fuse F-27 Voltage (Headlight Switch ON)

In the Interior Center Front of the Roof


L-27
L-5
L-28
L-26
L-25
L-20, L-21
L-22, L-23

4893525

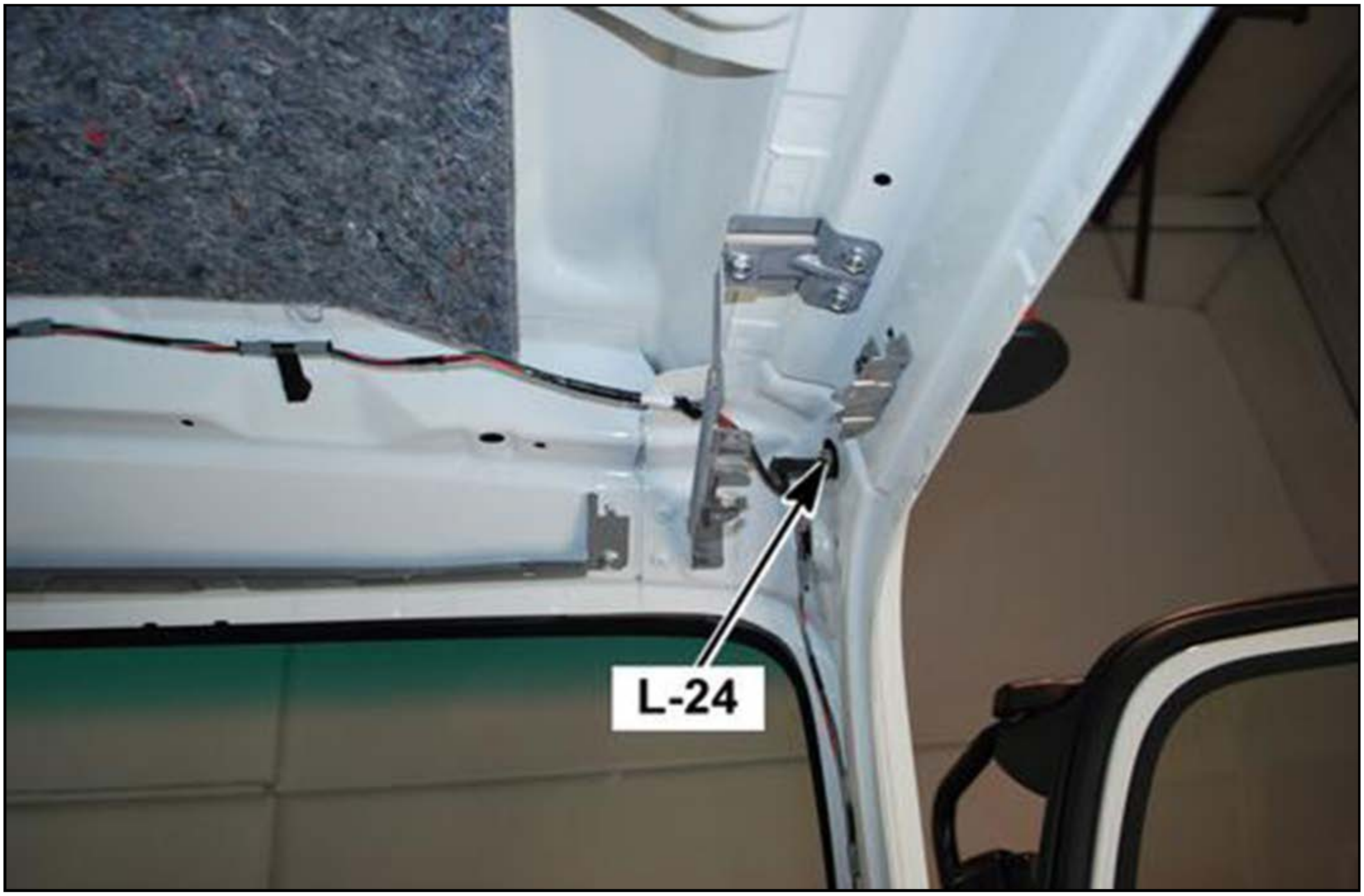
L-24 Marker Lamp 1



4893531

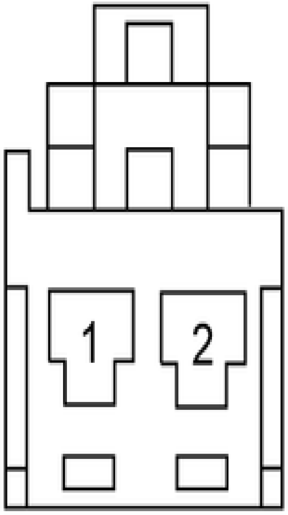
Connector Part Information		• 7382-5846 • 2-Way M (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/RED	BA56	Fuse F-27 Voltage (Headlamp Switch ON)
2	BLK	BX36	Ground to L-21 Splice Pack pin 3 (B-53 Ground)

On Top of the Roof, On the Forward Right Side of the Cab



4893533

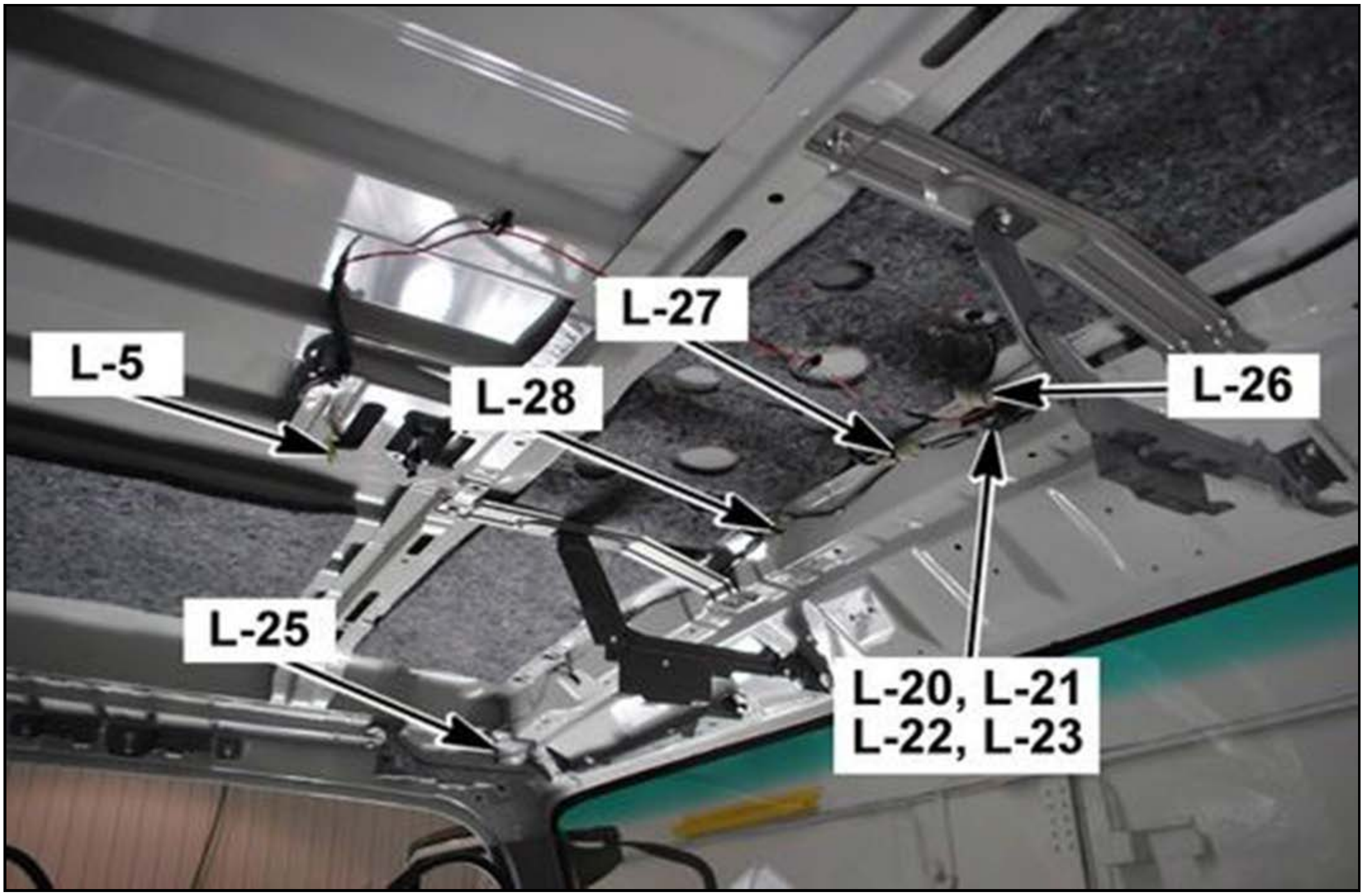
L-25 Marker Lamp 2



4893531

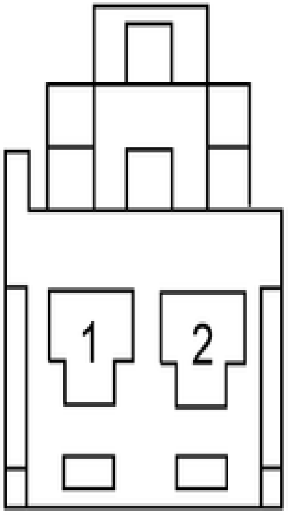
Connector Part Information		• 7382-5846 • 2-Way M (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/RED	BA52	Fuse F-27 Voltage (Headlamp Switch ON)
2	BLK	BX32	Ground to L-22 Splice Pack pin 2 (B-53 Ground)

On Top of the Roof, On the Forward Left Side of the Cab


L-27
L-5
L-28
L-26
L-25
L-20, L-21
L-22, L-23

4893525

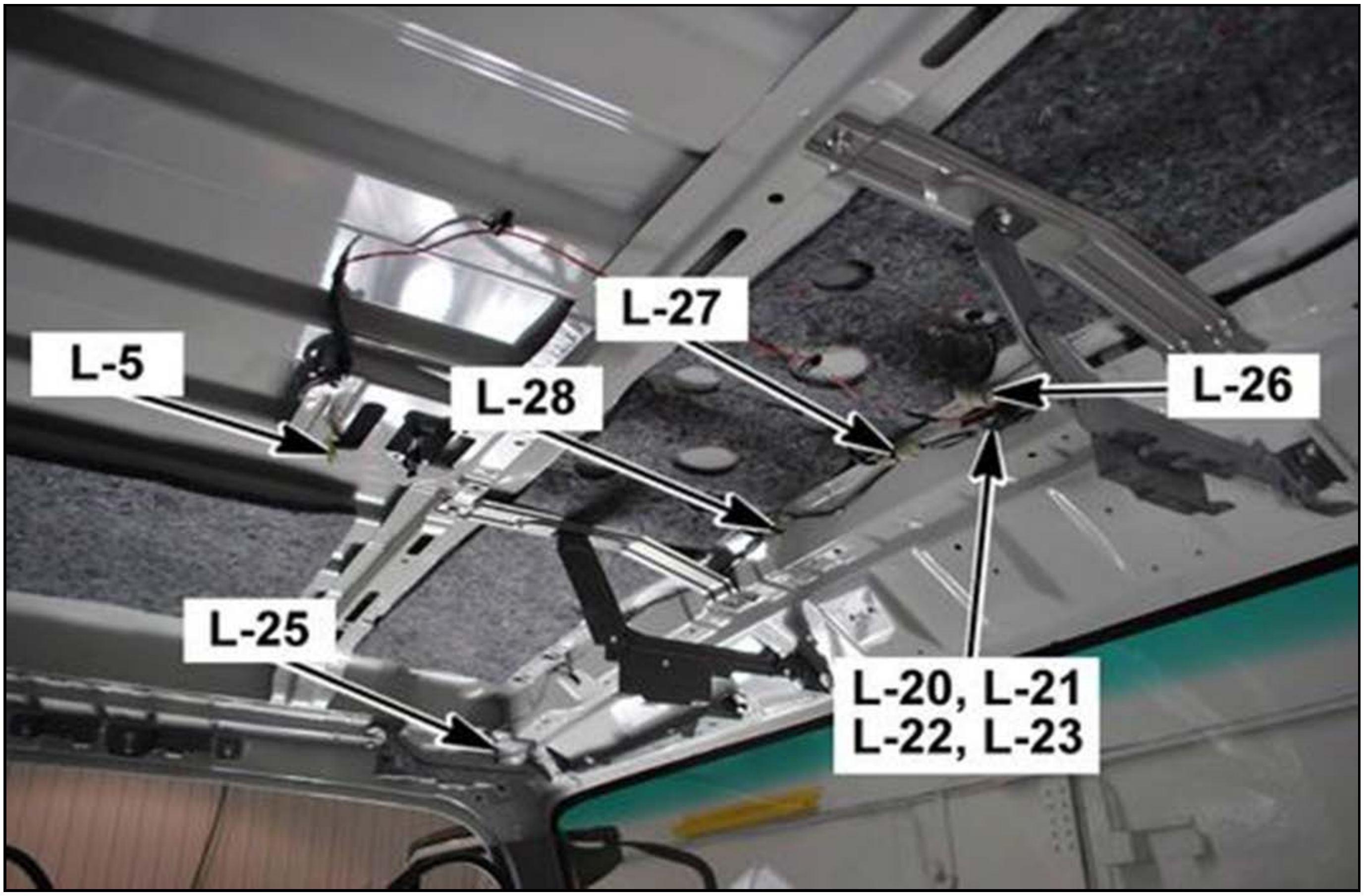
L-26 Clearance Lamp 1



4893531

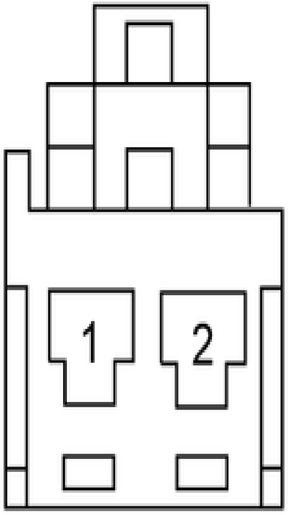
Connector Part Information		• 7382-5846 • 2-Way M (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/RED	BA53	Fuse F-27 Voltage (Headlamp Switch ON)
2	BLK	BX33	Ground to L-22 Splice Pack Pin 1 (B-53 Ground)

On Top of the Roof, On the Front of the Cab


L-27
L-5
L-28
L-26
L-25
L-20, L-21
L-22, L-23

4893525

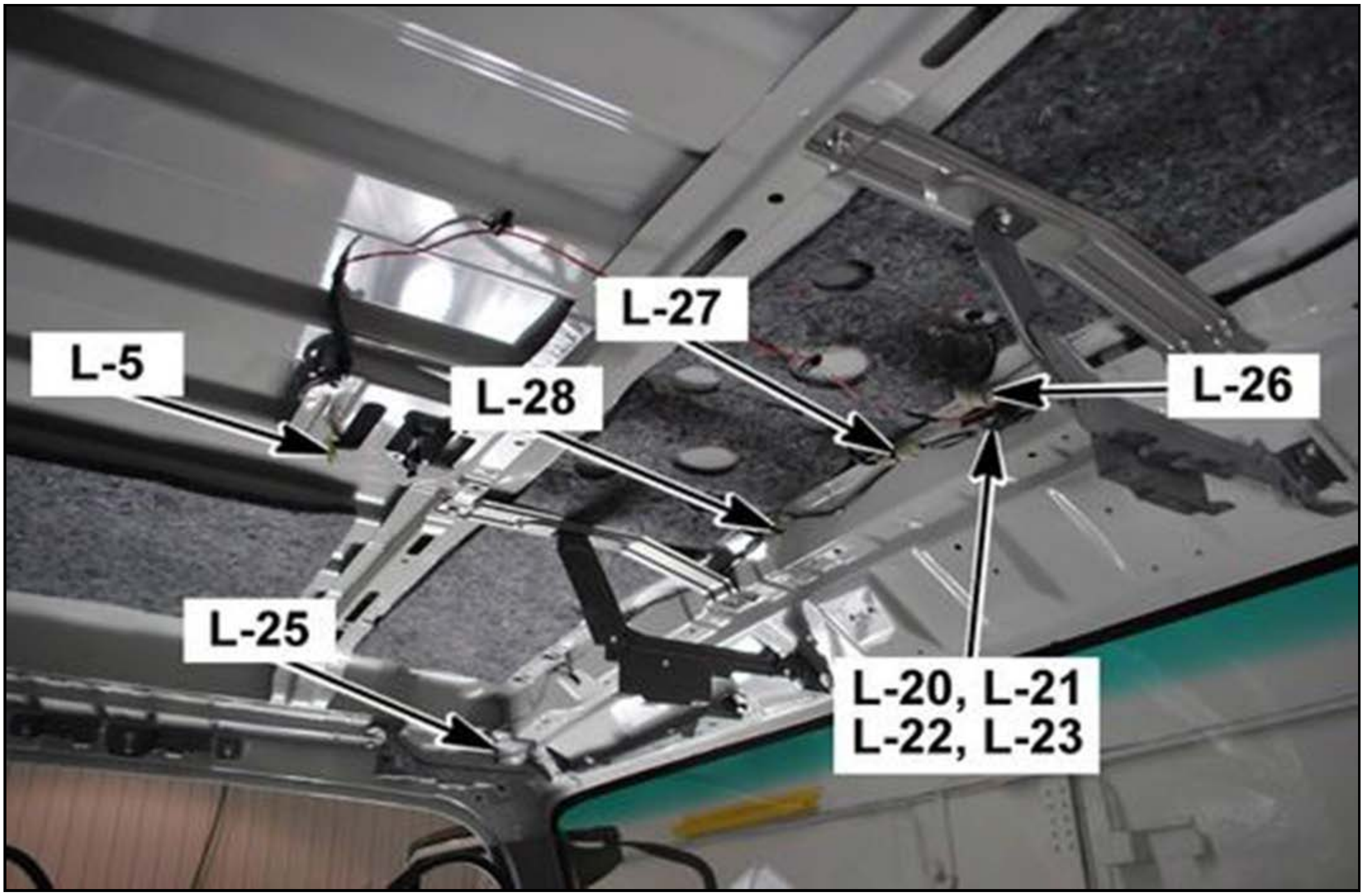
L-27 Clearance Lamp 2



4893531

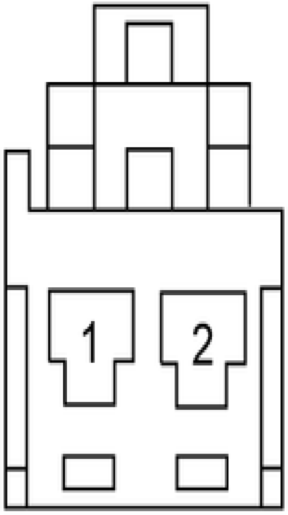
Connector Part Information	- 7382-5846 - 2-Way M (WHT)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/RED	BA54	Fuse F-27 Voltage (Headlamp Switch ON)
2	BLK	BX34	Ground to L-21 Splice Pack Pin 2 (B-53 Ground)

On Top of the Roof, On the Front of the Cab


L-5
L-27
L-28
L-26
L-25
L-20, L-21
L-22, L-23

4893525

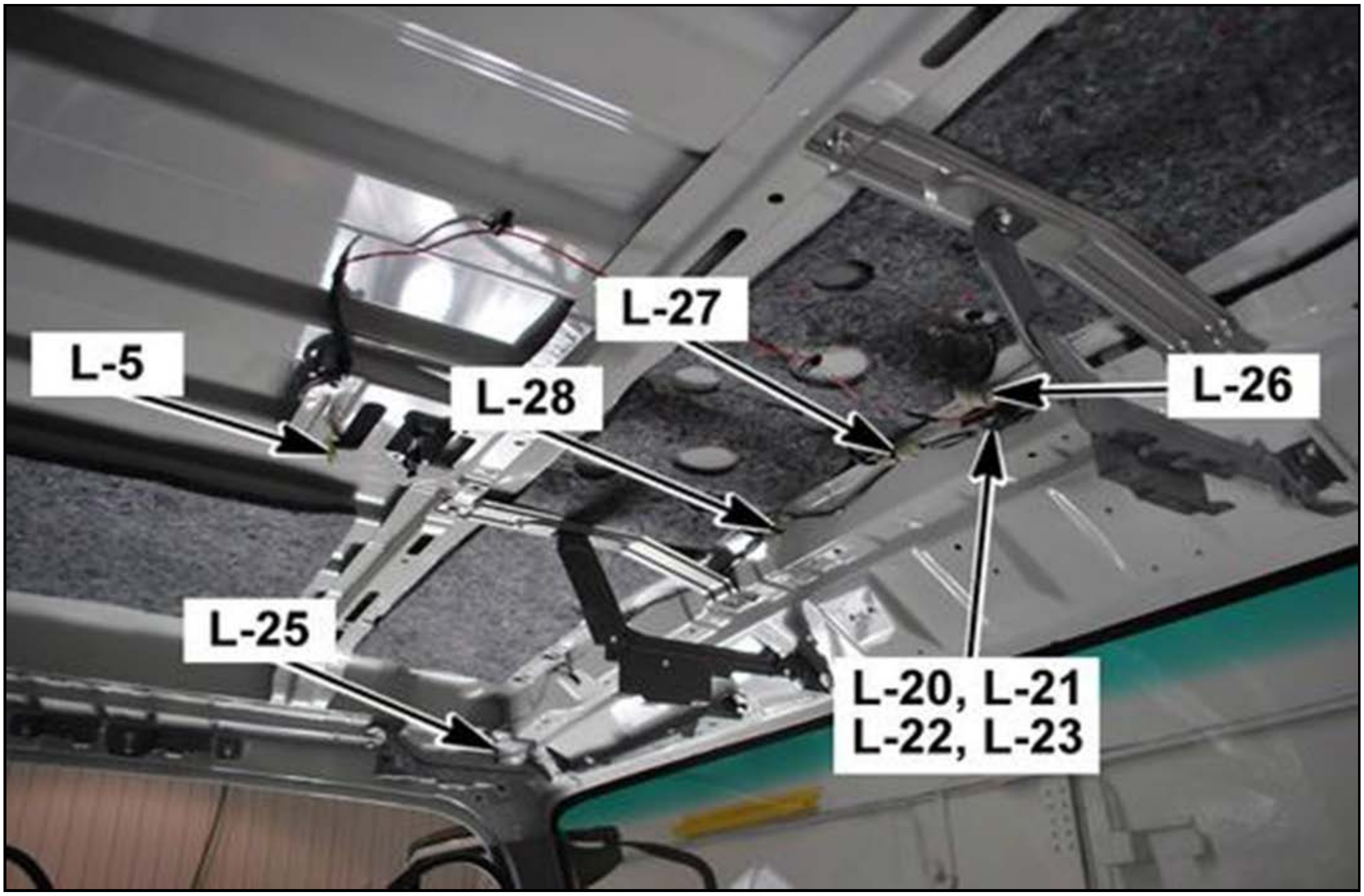
L-28 Clearance Lamp 3



4893531

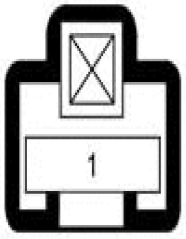
Connector Part Information	- 7382-5846 - 2-Way M (WHT)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	GRN/RED	BA55	Fuse F-27 Voltage (Headlamp Switch ON)
2	BLK	BX35	Ground to L-21 Splice Pack pin 1 (B-53 Ground)

On Top of the Roof, On the Front of the Cab


L-27
L-5
L-28
L-26
L-25
L-20, L-21
L-22, L-23

4893525

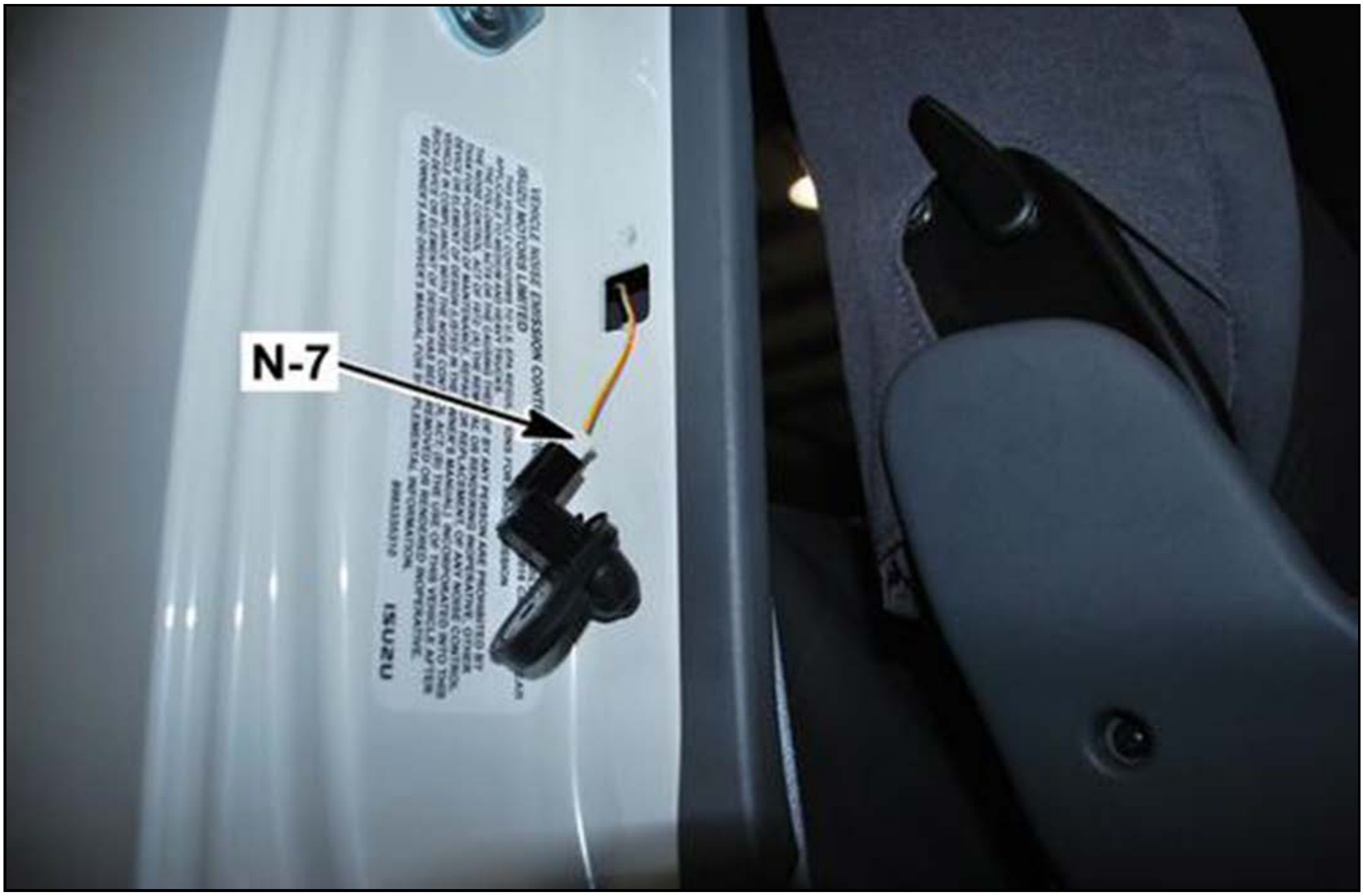
N-7 Door Switch (RH)



4893552

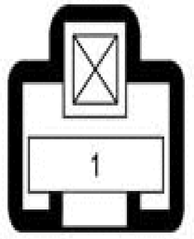
Connector Part Information		- 7383-2413 - 1-Way F (WHT)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	YEL/RED	IA10	Dome Lamp Signal

Right B-Pillar



4893596

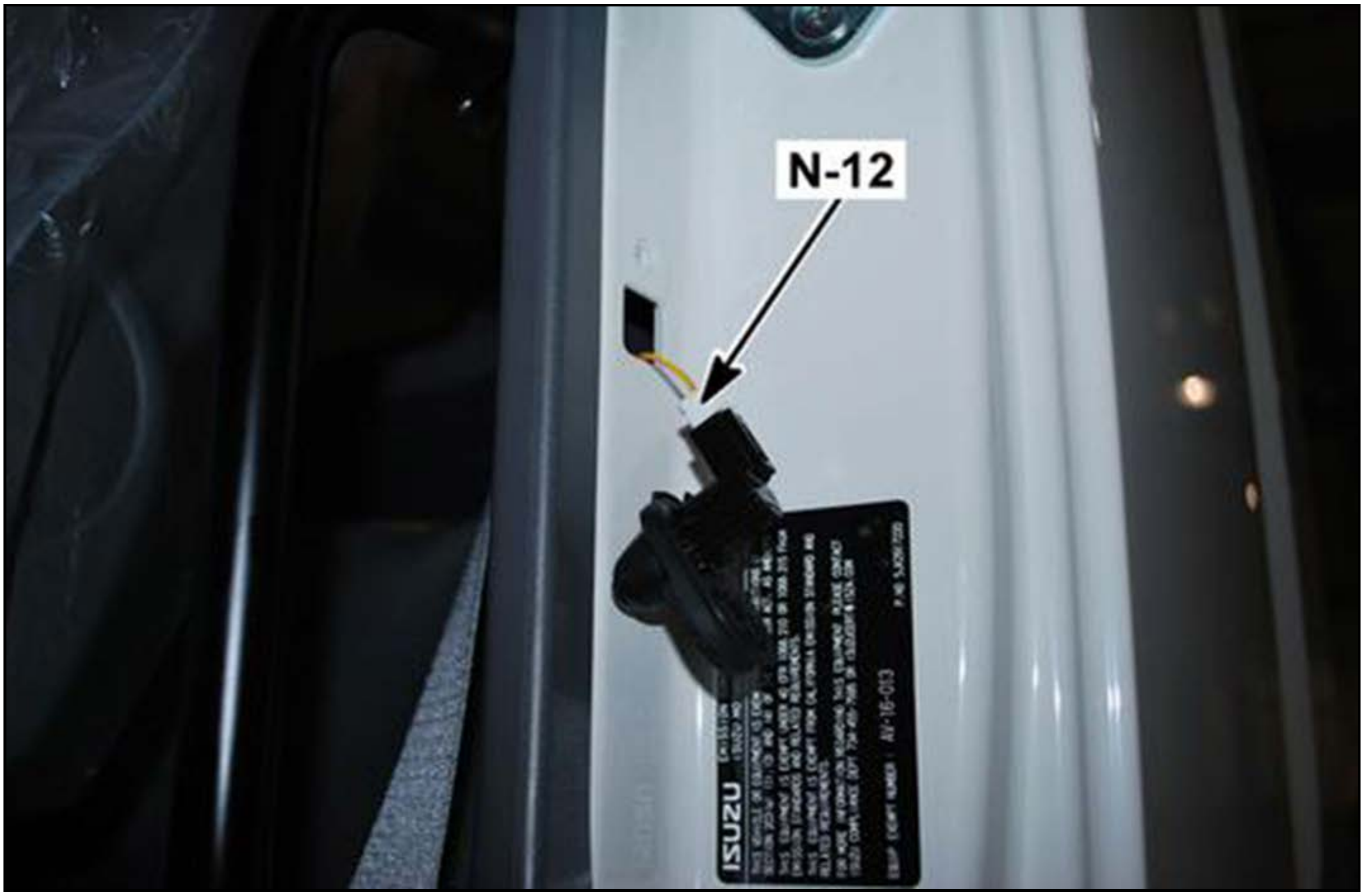
N-12 Door Switch (LH)



4893552

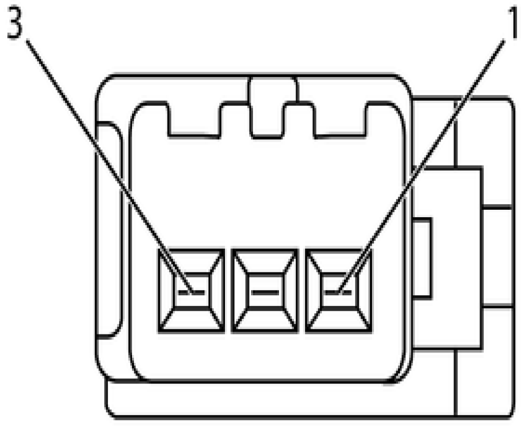
Connector Part Information		• 7383-2413 • 1-Way F (WHT)	
Pin	Wire Color	Circuit Number	Function
1	YEL/RED	IA11	Dome Lamp Signal

Left B-Pillar



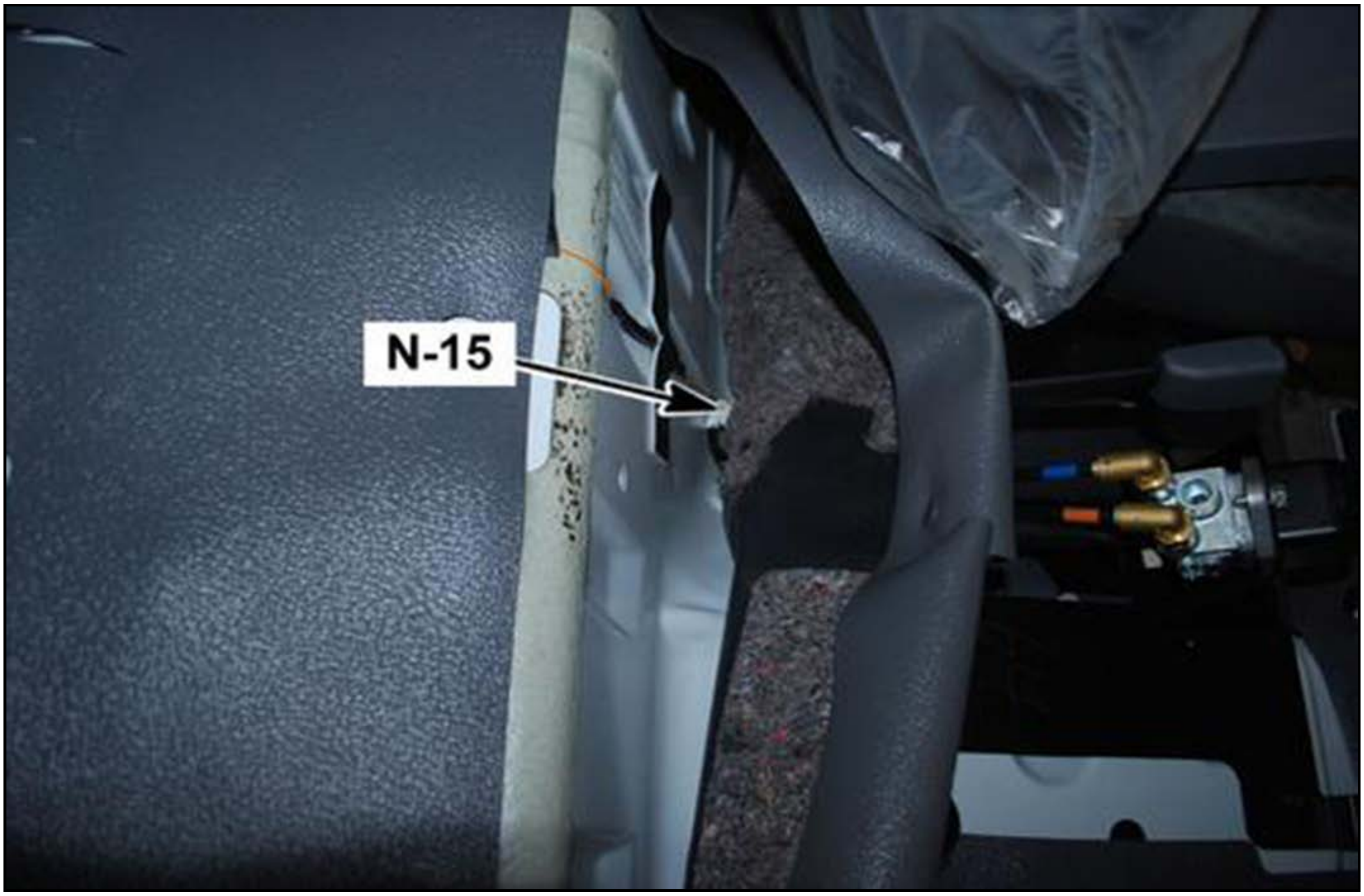
4893608

N-15 Seat Belt Switch



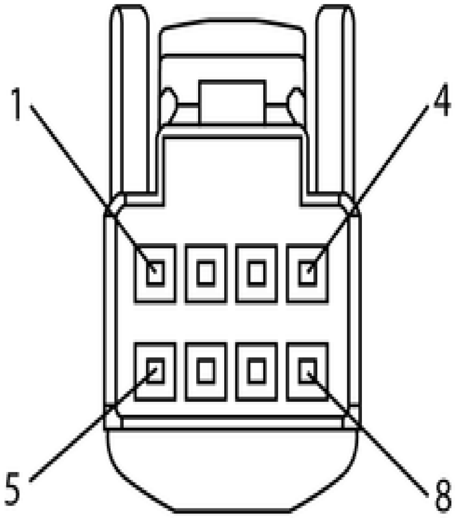
Connector Part Information		• 7383-8630 • 3-Way F (WHT)	
Pin	Wire Color	Circuit Number	Function
1	WHT/GRN	MA10	Seat Belt Switch Signal to IPC
2	BLK	MX06	Ground to B-600 Splice Pack (B-51 Ground)
3	—	—	Not Used

Behind the Mat, Between the Drivers Seat and the Console



4893617

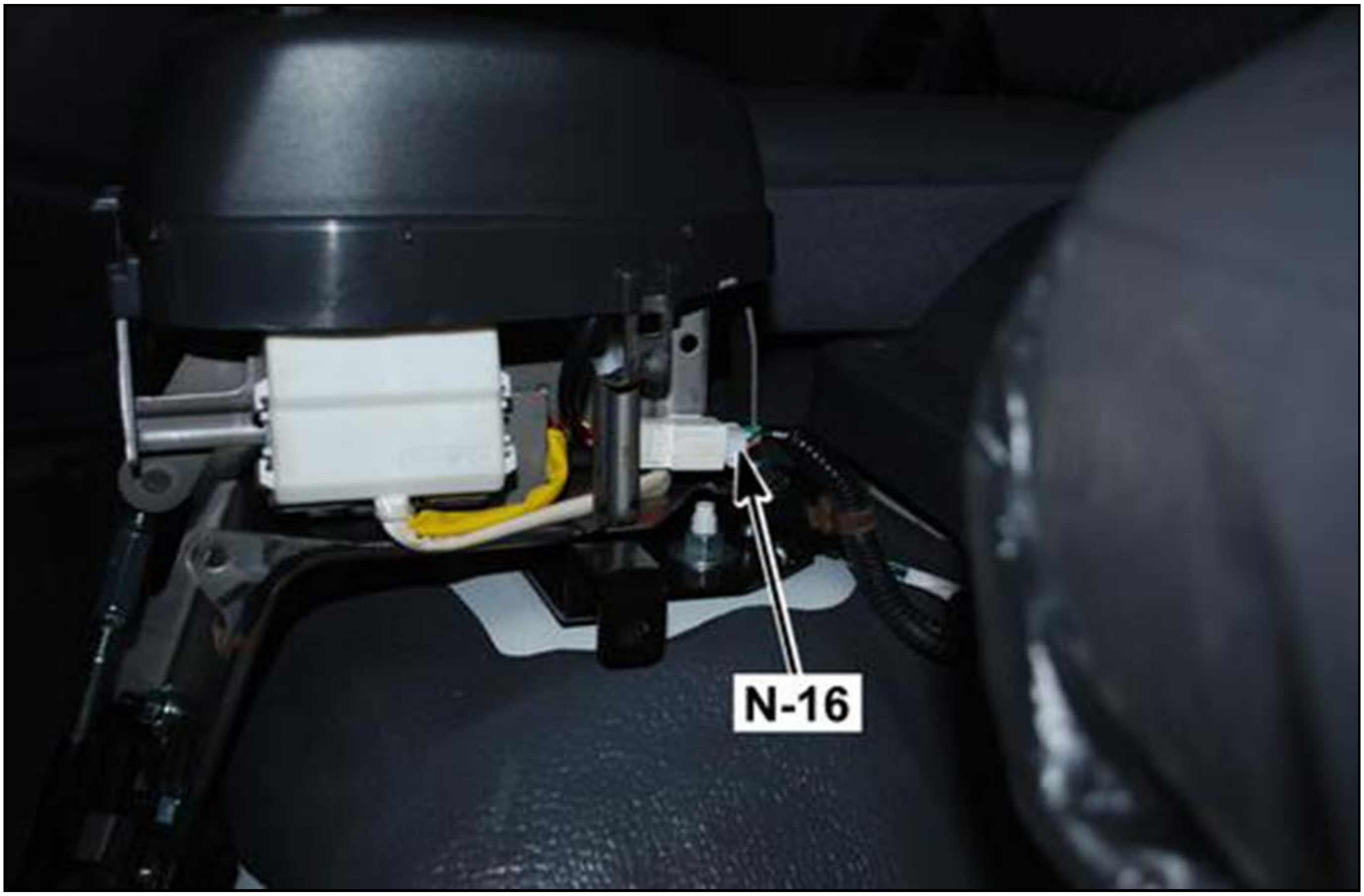
N-16 Shift Lever



4893619

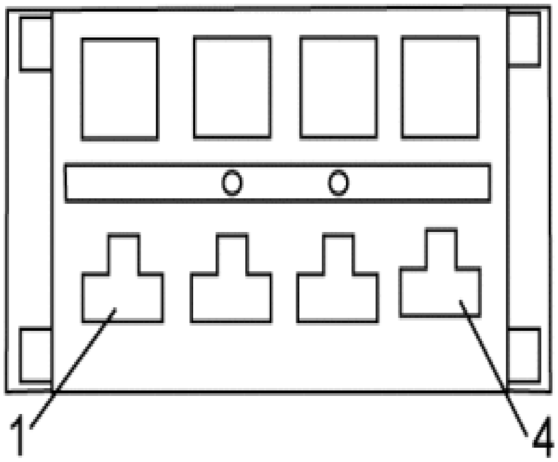
Connector Part Information		- 1376352-1 - 8-Way F (WHT)	
Pin	Wire Color	Circuit Number	Function
1	LT GRN/RED	BA61	Fuse F-28 Voltage (Headlamp Switch ON), Dimming Control
2	GRN	OA92	Switched Output Voltage from X-1 Stop Lamp Relay
3	LT GRN/RED	OA91	Ignition Voltage from Fuse F-18
4	RED/WHT	OA190	Ignition Voltage from Fuse F-24
5	LT GRN/BLK	BA64	Dimming Control to Dimming Control Switch
6	BLU/WHT	OA93	Key Lock Solenoid Control
7	—	—	Not Used
8	BLK	OX20	Ground to Splice 18 (B-55 and B-221)

Center of the Cab, Under the Shift Lever Trim Panels



4893621

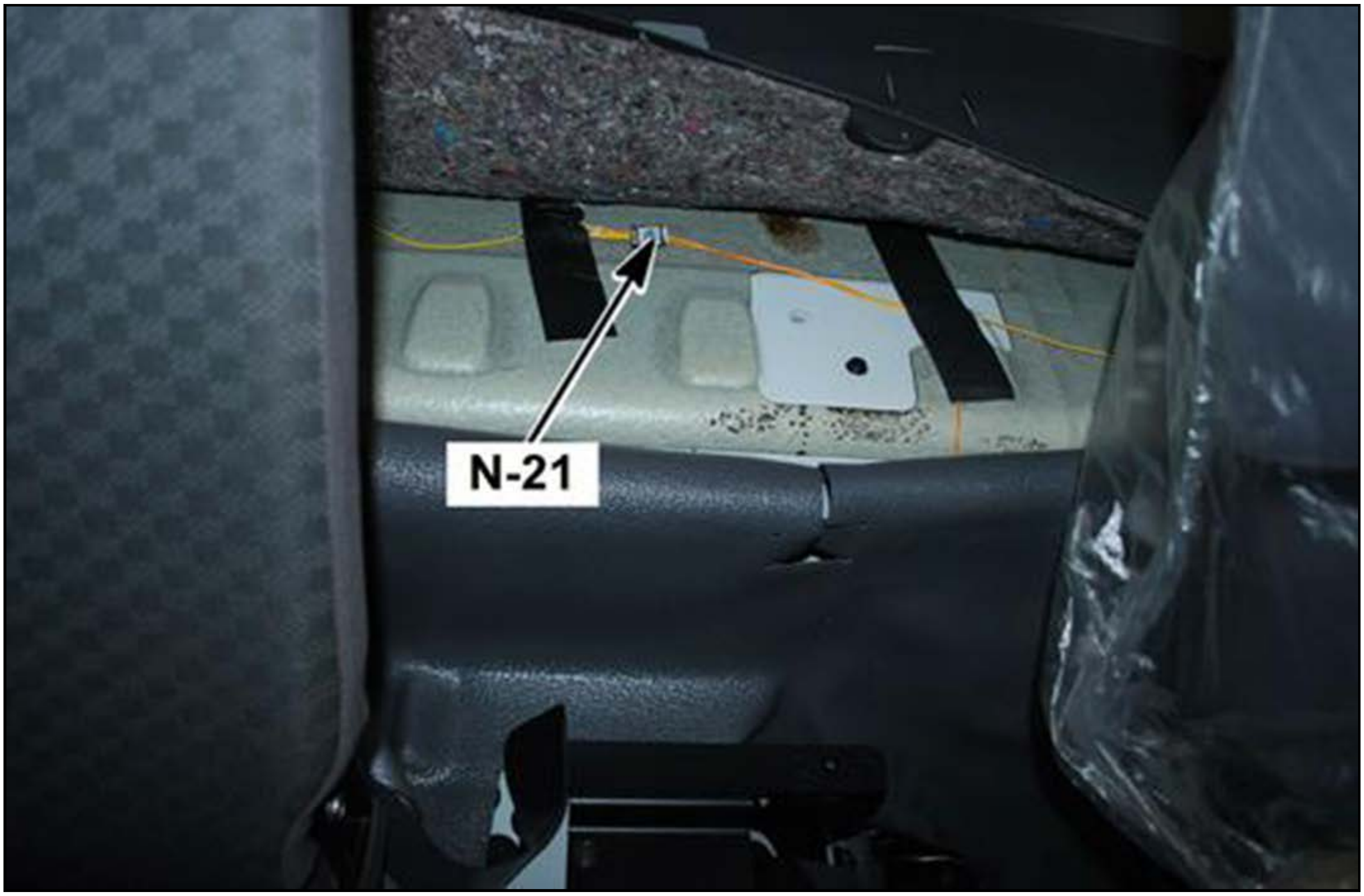
N-21 Splice Pack



4890929

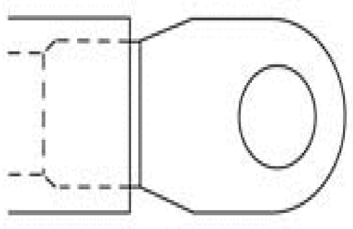
Connector Part Information	- 1376352-1 - 8-Way F (WHT)		
Pin	**Wire Color**	**Circuit Number**	**Function**
1	YEL/RED	IA11	Door Switch Signal (LH)
2	YEL/RED	IA10	Door Switch Signal (RH)
3	YEL/RED	IA14	Door Switch Signal to J/B 2 (B-146 pin 12)
4	—	—	Not Used

Under the Rear Mat, Behind the Console



4893626

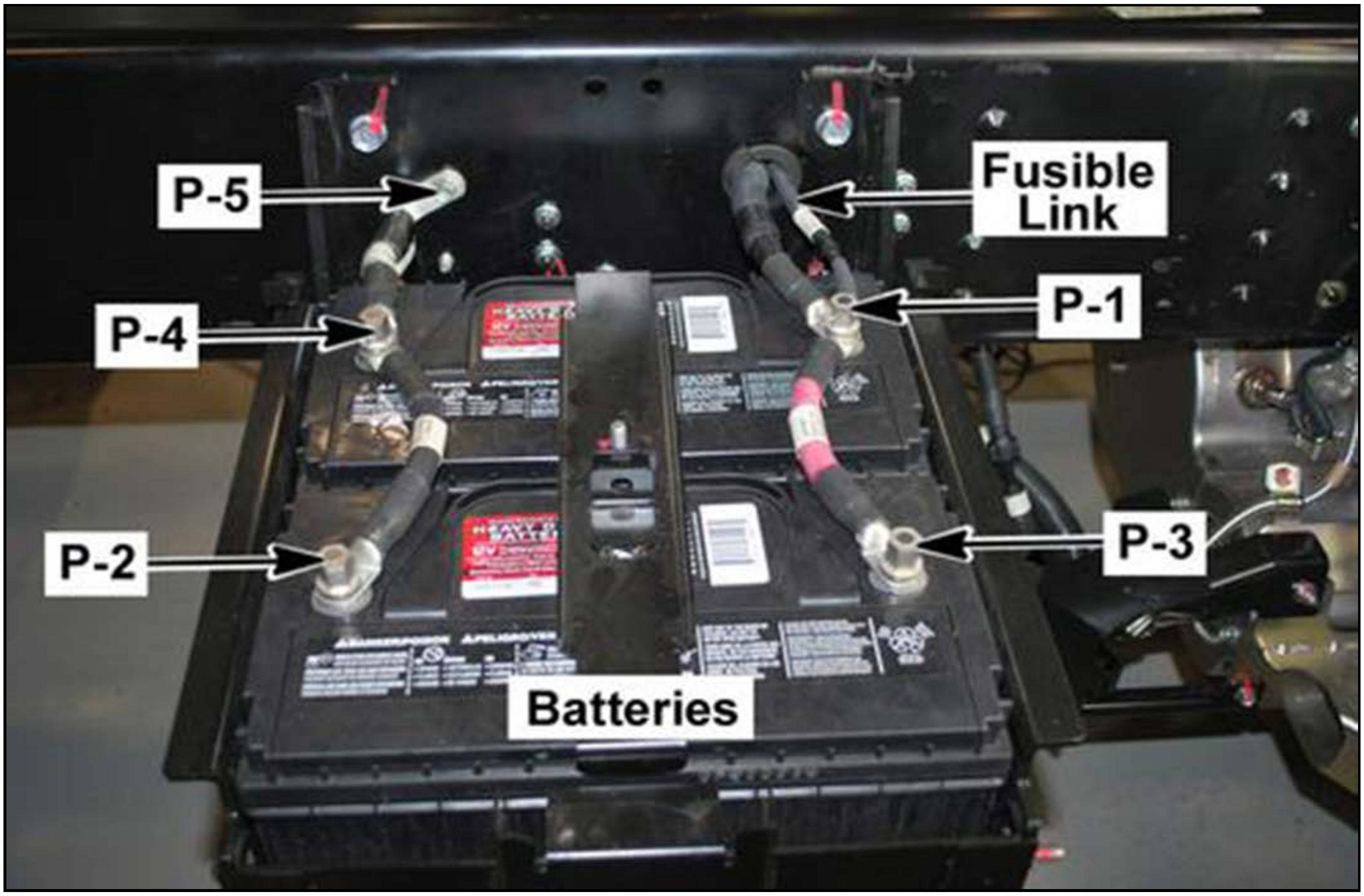
P-1, P-2, P-3, P-4 Battery Terminals



4891772

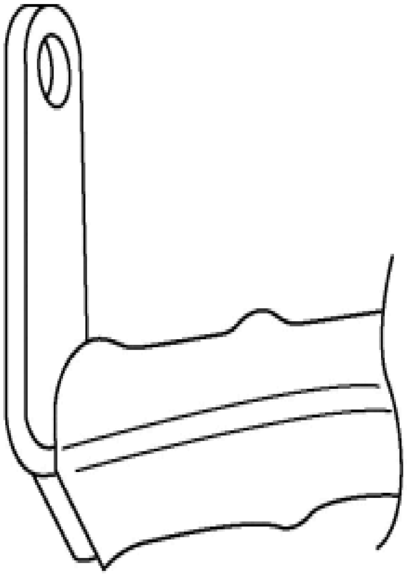
Connector Part Information		• 1 Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
P-1	BLK RED RED	—	Battery Voltage to H-282 Pin 1 Battery Positive To Positive Battery Battery To Starter Positive
P-2	BLK	—	Battery Negative To Battery Negative
P-3	RED	—	Battery Positive To Battery Positive
P-4	BLK BLK/YEL	—	Battery Negative To Battery Negative Battery To Ground P-5

Right Outer Frame Rail, On Top of the Batteries (Top Cover Removed)


P-5
Fusible Link
P-4
P-1
P-2
P-3
Batteries

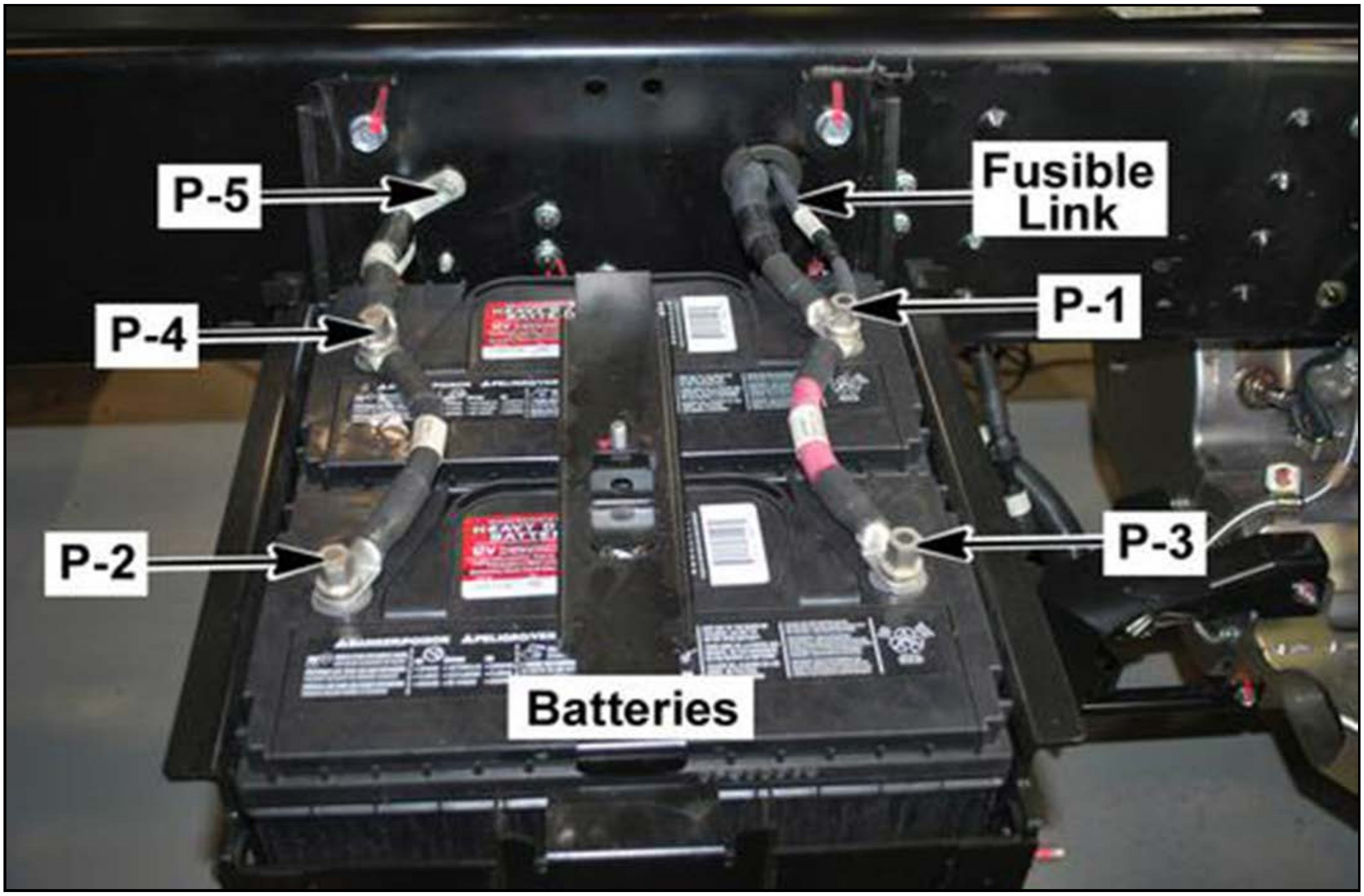
4893638

P-5 Ground



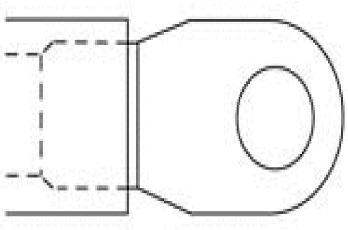
Connector Part Information		• 1 Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK/YEL	—	Ground to Batteries

Left Outer Frame Rail, Next to the Batteries


P-5
Fusible Link
P-4
P-1
P-2
P-3
Batteries

4893638

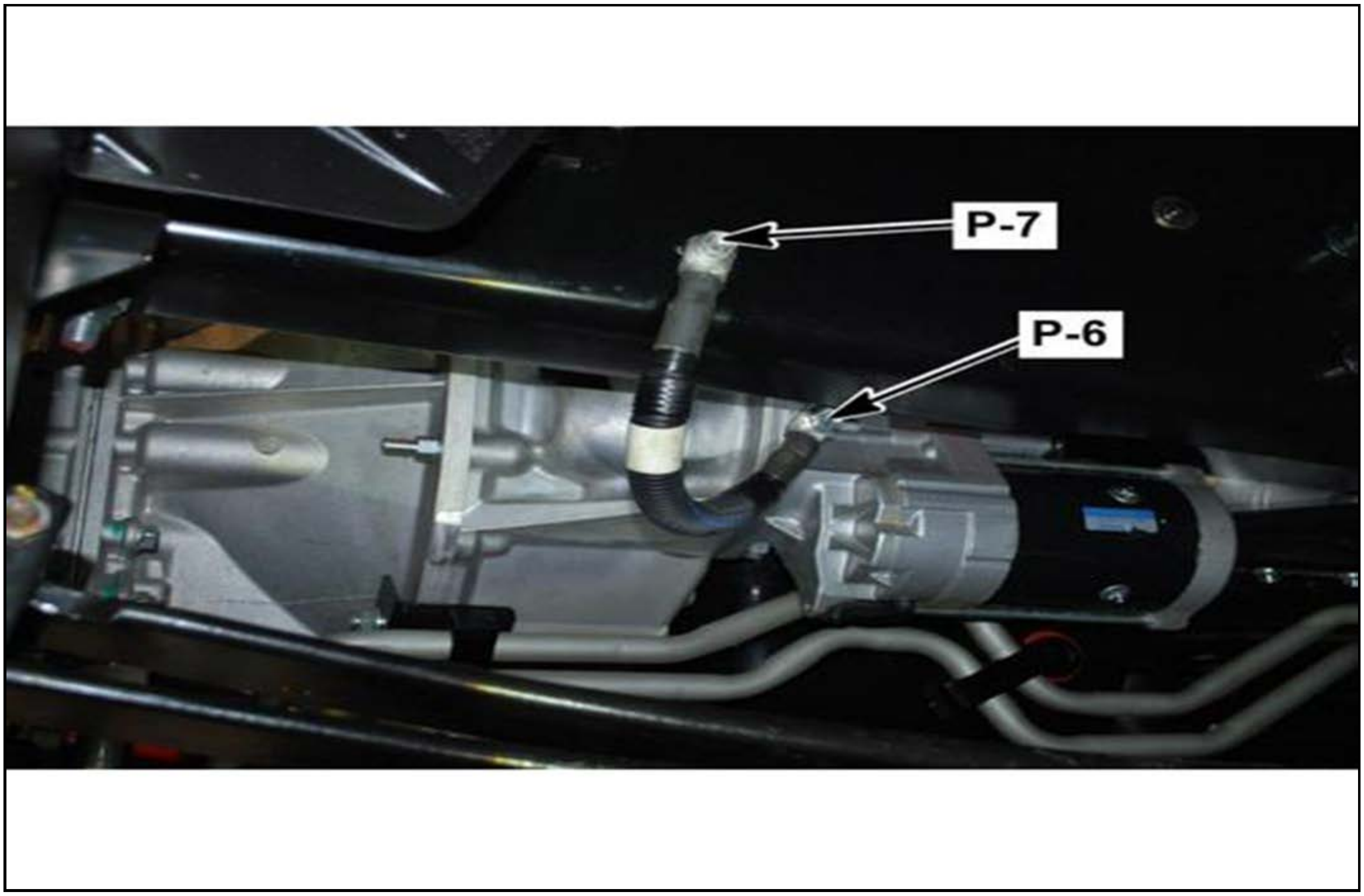
P-6 Ground



4891772

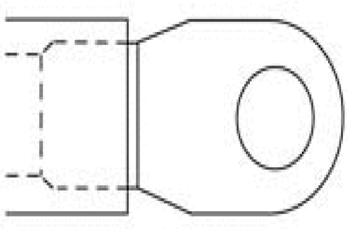
Connector Part Information		• 1 Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	—	Ground to Starter

Right Lower Side of the Engine, on the Starter



4893648

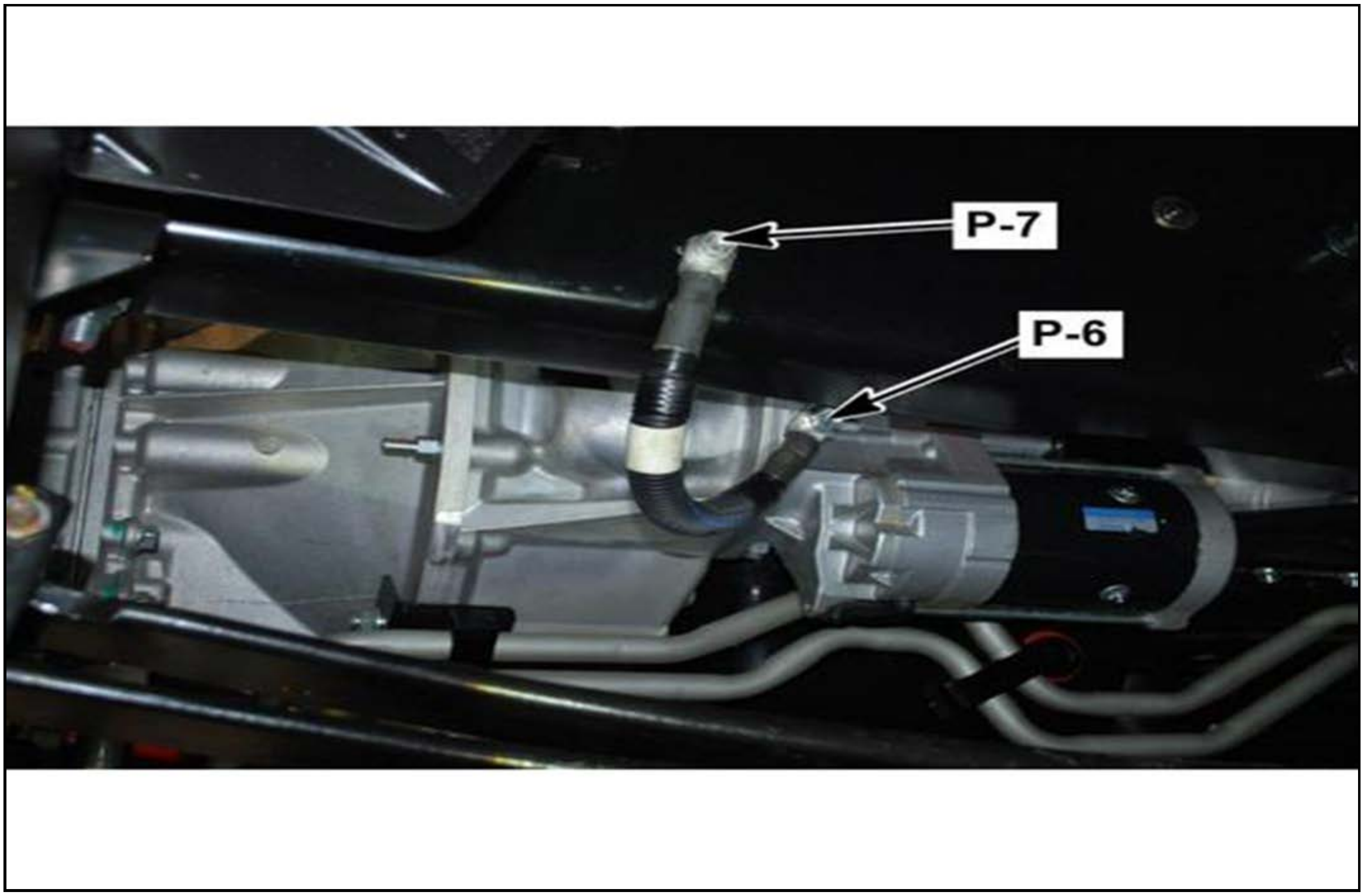
P-7 Ground



4891772

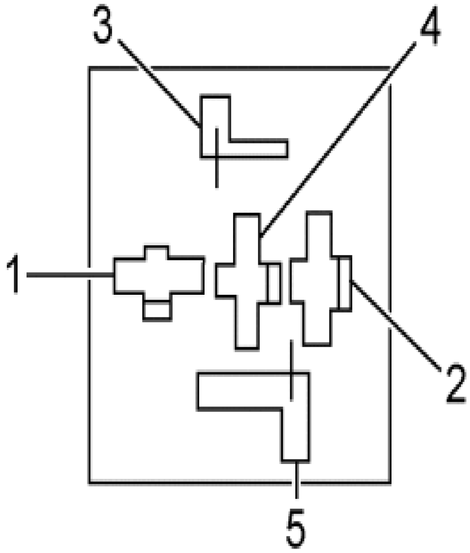
Connector Part Information		• 1 Way Eyelet	
Pin	**Wire Color**	**Circuit Number**	**Function**
—	BLK	—	Ground to Frame Rail

Right Front Inner Fender Well, on the Outer Frame Rail



4893648

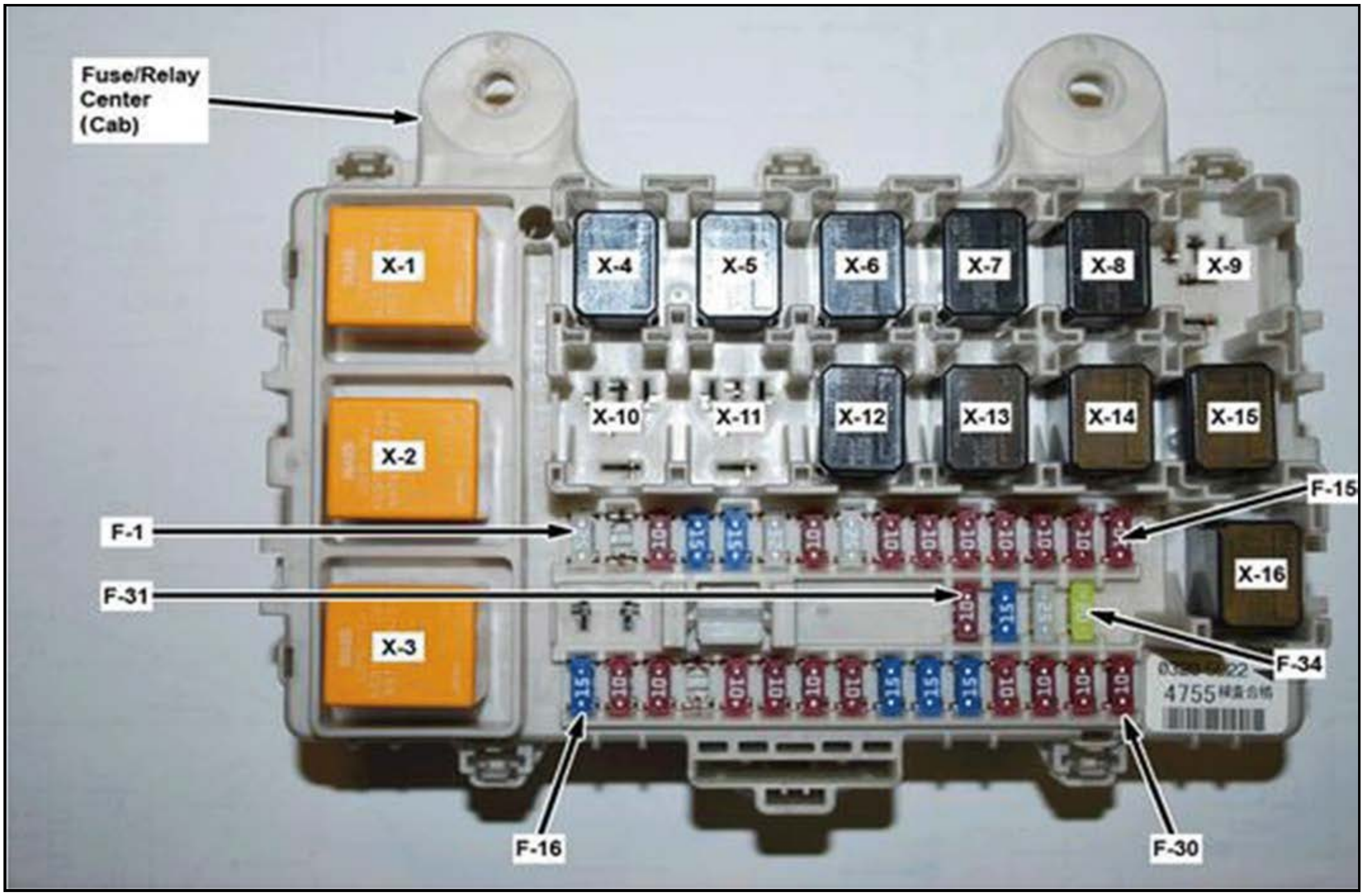
X-1 Stop Lamp Relay



4893653

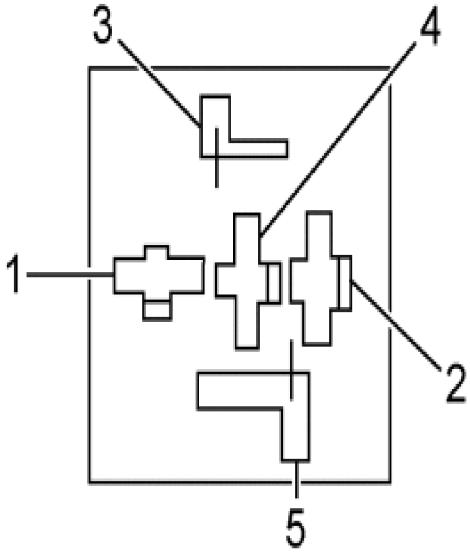
Connector Part Information		• 5-Way F Fuse/Relay Center (Cab)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	—	—	Stop Light Control (30 Switched Output Voltage)
2	—	—	Battery Voltage from Fuse F-12 (87 Input Voltage)
3	—	—	Battery Voltage from Fuse F-12 (86 Coil Feed)
4	—	—	Not Used (87a)
5	—	—	Stop Light Relay Control (85 Coil Control)

Behind the Center of the I/P, In the Fuse/Relay Center (Cab)


Fuse/Relay Center (Cab)
X-1
X-2
X-3
X-4
X-5
X-6
X-7
X-8
X-9
X-10
X-11
X-12
X-13
X-14
X-15
X-16
F-1
F-15
F-31
F-34
F-16
F-30

4895363

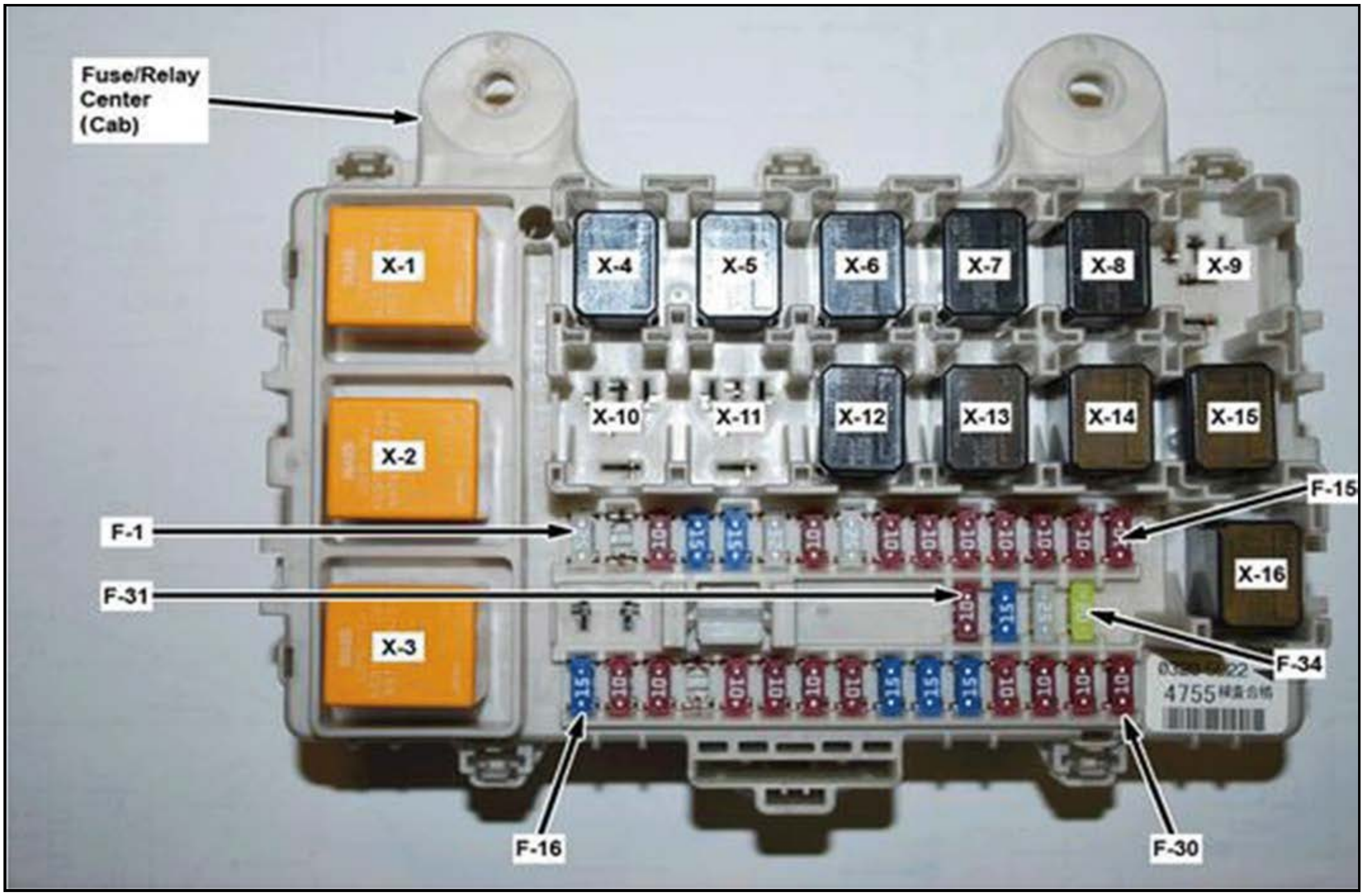
X-2 DRL Relay



4893653

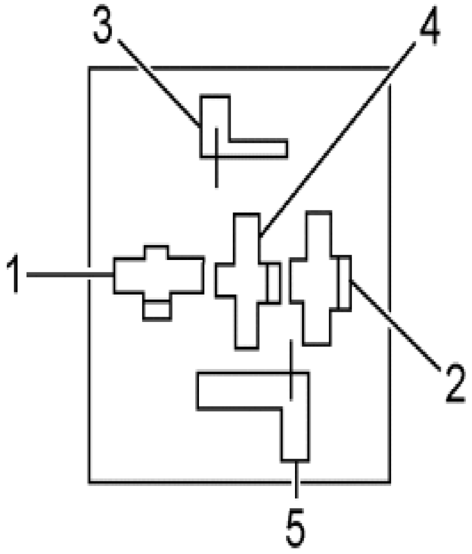
Connector Part Information		• 5-Way F Fuse/Relay Center (Cab)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/GRN	AA041	To DRL Module (Switched Output Voltage)
2	WHT/RED	AA042	Battery Voltage from Fuse FL-8 (Input Voltage)
3	LT GRN	AA043	Battery Voltage from Fuse F-10 (Coil Feed)
4	—	—	Not Used (87a)
5	RED/BLK	AA090B	To DRL Module (Coil Control)

Behind the Center of the I/P, In the Fuse/Relay Center (Cab)


Fuse/Relay Center (Cab)
X-1
X-4
X-5
X-6
X-7
X-8
X-9
X-2
X-10
X-11
X-12
X-13
X-14
X-15
F-15
F-1
X-16
F-31
X-3
F-34
F-16
F-30

4895363

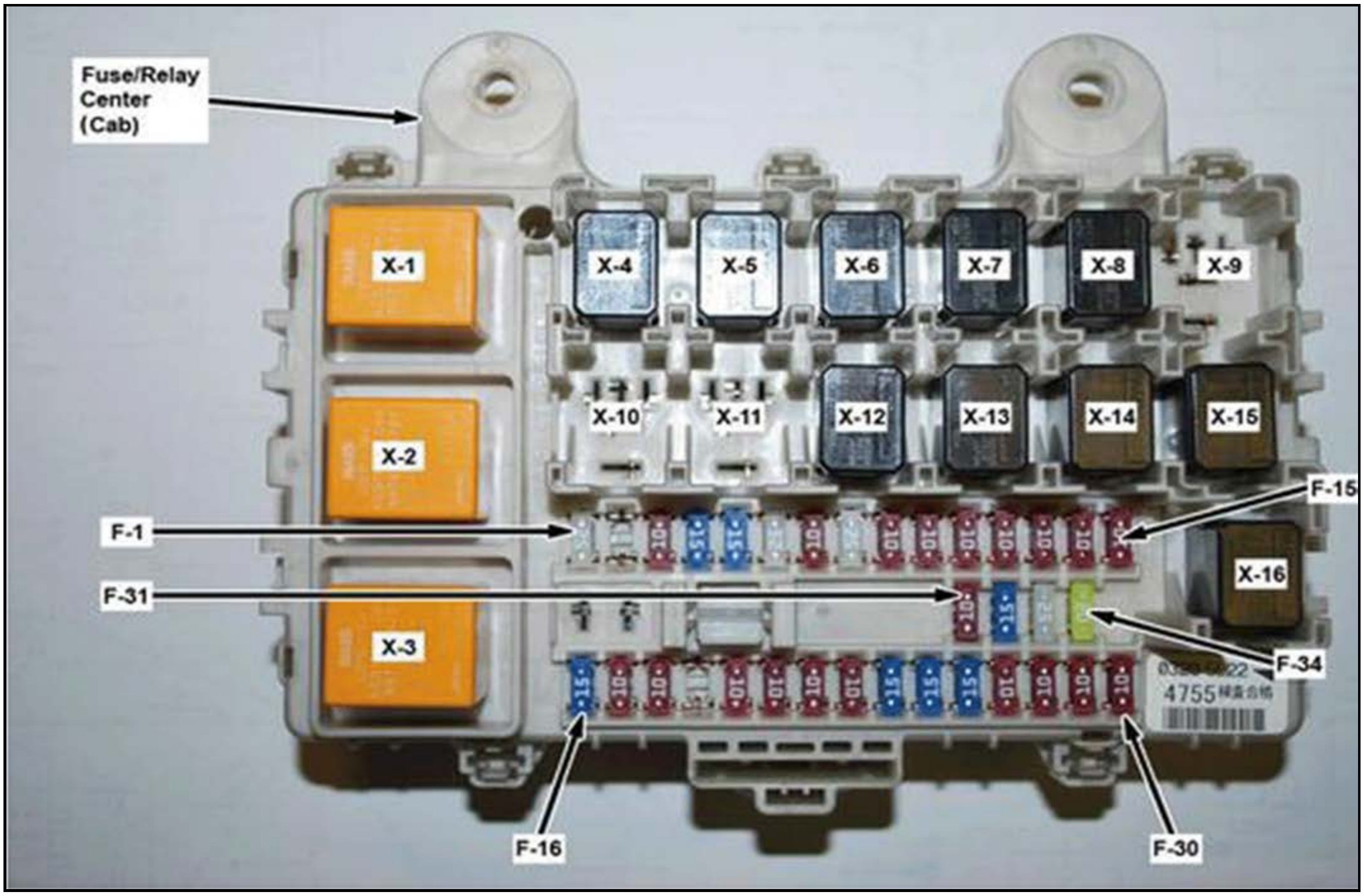
X-3 Key ON Relay



4893653

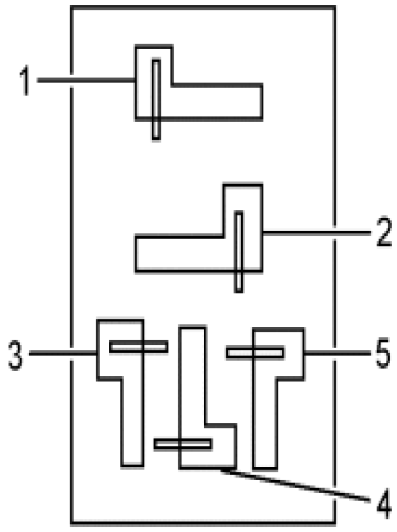
Connector Part Information		• 5-Way F Fuse/Relay Center (Cab)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	—	—	Fuse F-8 Control (30 Switched Output Voltage)
2	WHT/BLK	PA11	Battery Voltage from Fuse FL-10 (87 Input Voltage)
3	BLK	EY19	Ignition Voltage from Fuse F-21 (Coil Feed)
4	—	—	Not Used (87a)
5	—	—	Ground to J/B 2 (B-144 pin 5) (B-53 Ground) (86 Coil Control)

Behind the Center of the I/P, In the Fuse/Relay Center (Cab)


Fuse/Relay Center (Cab)
X-1
X-2
X-3
X-4
X-5
X-6
X-7
X-8
X-9
X-10
X-11
X-12
X-13
X-14
X-15
X-16
F-1
F-15
F-31
F-34
F-16
F-30

4895363

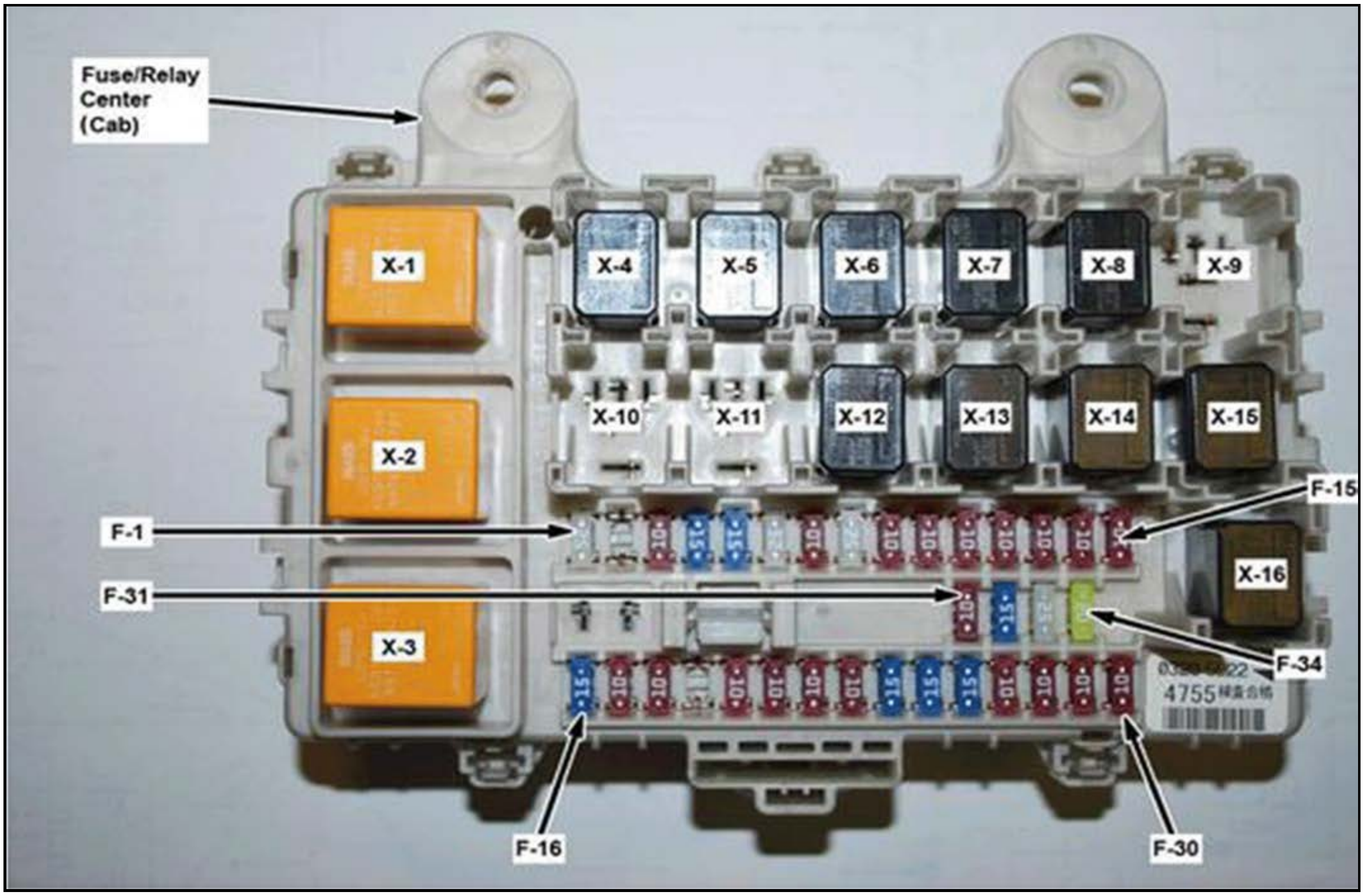
X-5 Cornering Lamp Relay



4893747

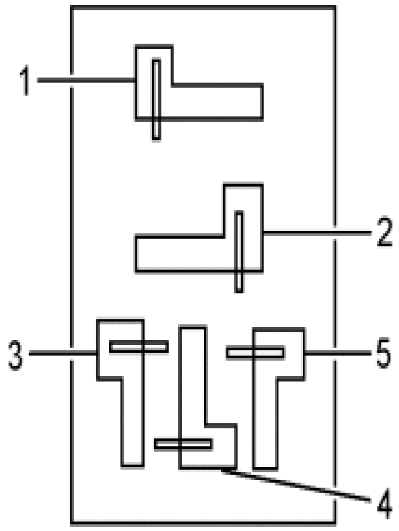
Connector Part Information		• 5-Way F Fuse/Relay Center (Cab)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	—	—	Fuse F-29 Voltage (Headlamp Switch ON) (Input Voltage)
2	LT GRN	OA052	To J/B 1 (B-136 pin 15)*(Switched Output Voltage)
3	VIO	OA057	Ignition Voltage from Fuse F-21 (86 Coil Feed)
4	—	—	Not Used (87a)
5	GRY	OX008	To Diode 3 (Coil Control)

Behind the Center of the I/P, In the Fuse/Relay Center (Cab)


Fuse/Relay Center (Cab)
X-1
X-2
X-3
X-4
X-5
X-6
X-7
X-8
X-9
X-10
X-11
X-12
X-13
X-14
X-15
X-16
F-1
F-15
F-31
F-34
F-16
F-30

4895363

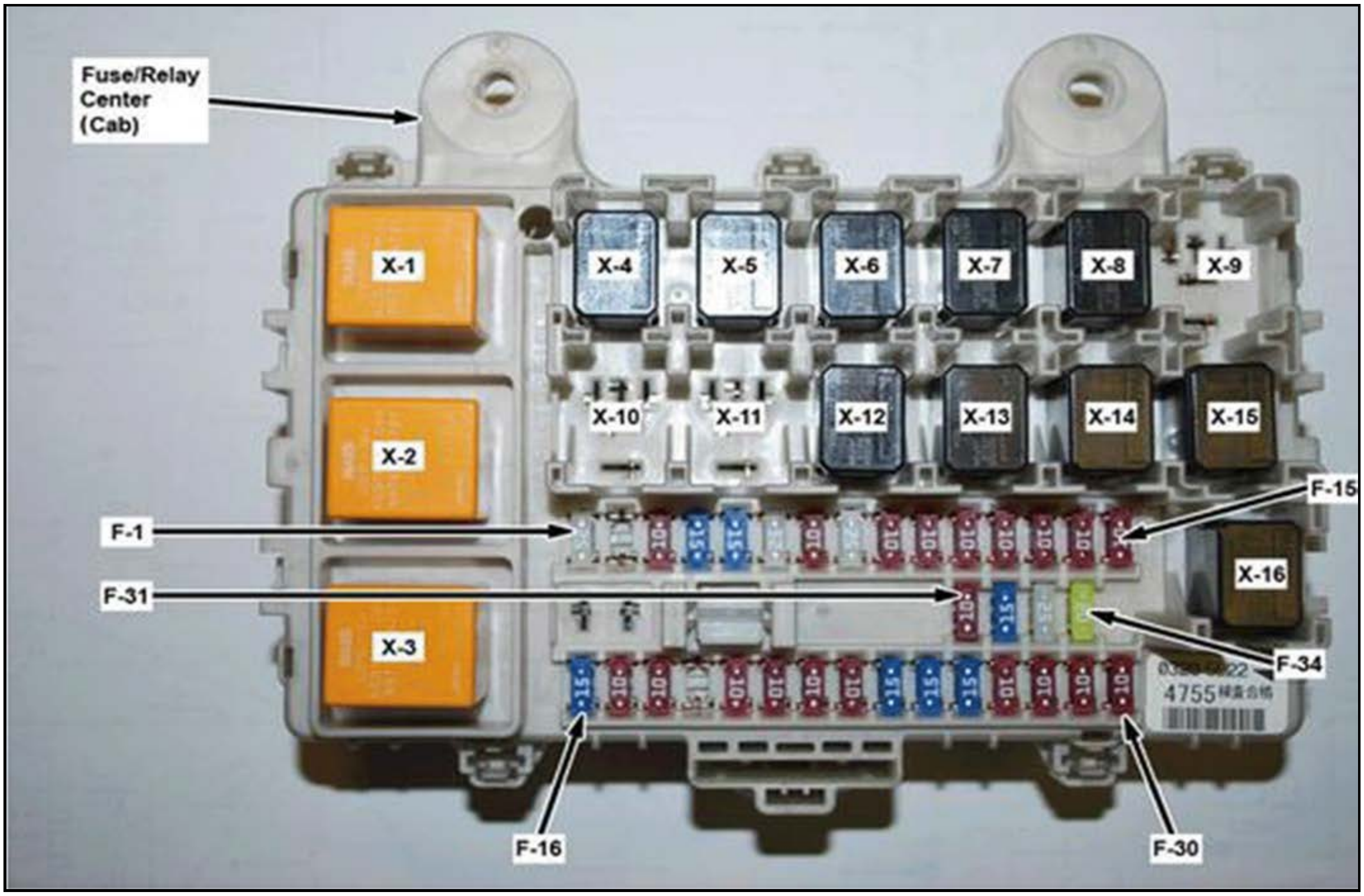
X-6 Wiper Main Relay



4893747

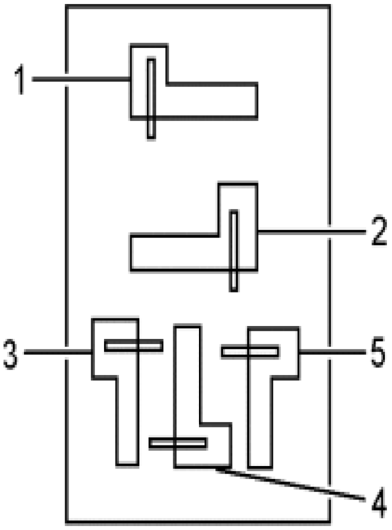
Connector Part Information		• 5-Way F Fuse/Relay Center (Cab)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	—	—	Wiper High Low Relay Control Voltage (30 Switched Output Voltage)
2	—	—	Fuse F-8 Supply Voltage (87 Input Voltage)
3	—	—	Fuse F-8 Supply Voltage (86 Coil Feed)
4	BLU/ORN	FA15	Wiper Motor Park Signal (87a Normally Closed Input Voltage)
5	BLU/RED	FA06	Wiper/Exhaust Brake Switch Voltage (85 Coil Control)

Behind the Center of the I/P, In the Fuse/Relay Center (Cab)


Fuse/Relay Center (Cab)
X-1
X-2
X-3
X-4
X-5
X-6
X-7
X-8
X-9
X-10
X-11
X-12
X-13
X-14
X-15
X-16
F-1
F-15
F-31
F-34
F-16
F-30

4895363

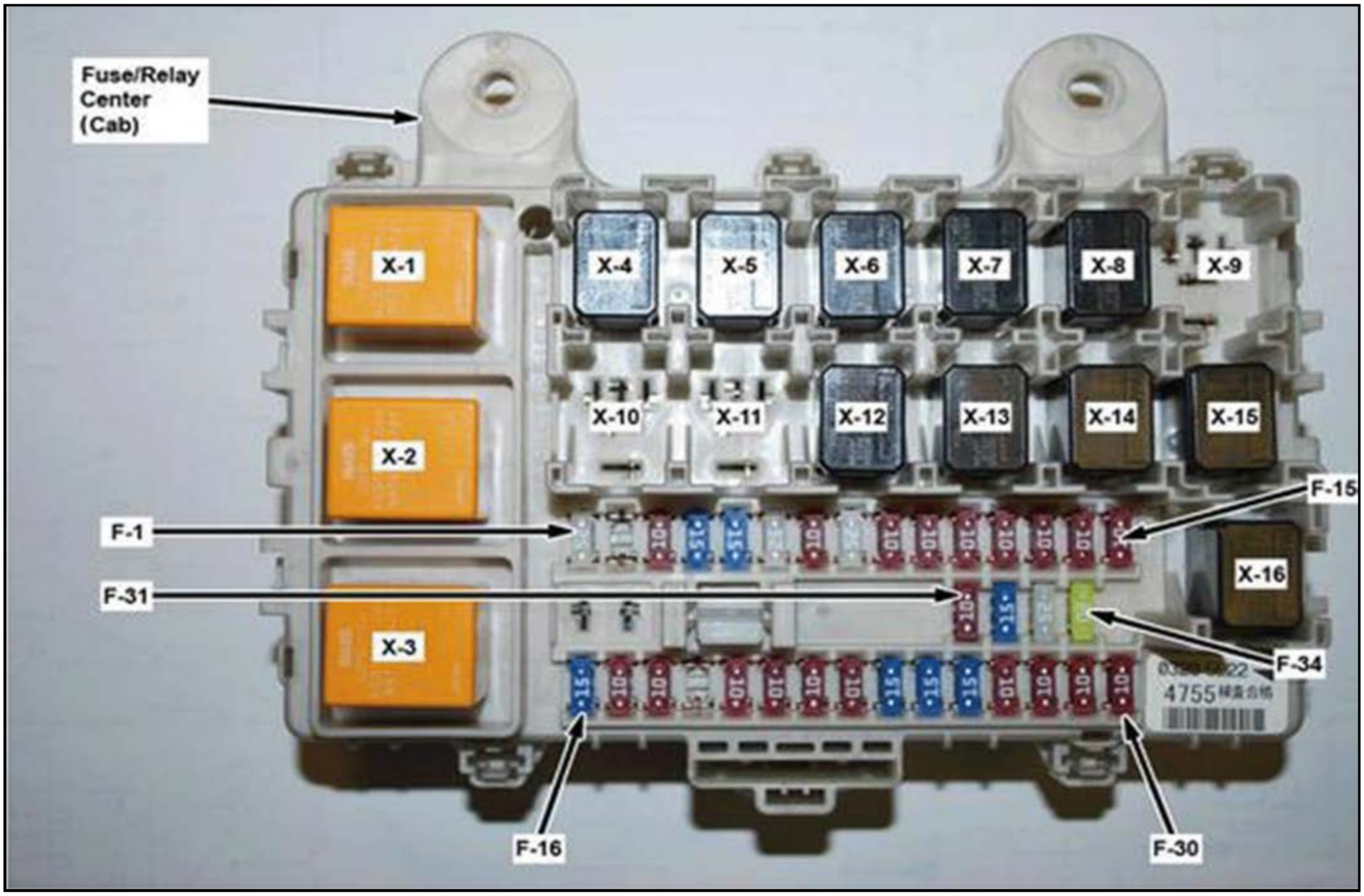
X-7 Horn Relay



4893747

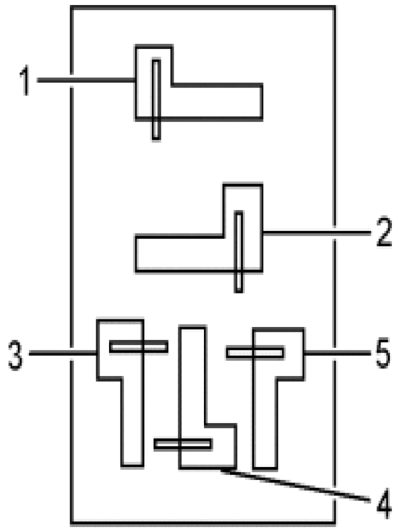
Connector Part Information		• 5-Way F Fuse/Relay Center (Cab)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	LT BLU	DA001B	Horn Control Voltage (Switched Output Voltage)
2	—	—	Ignition Voltage from Fuse F-25 (Coil Feed)
3	—	—	Ignition Voltage from Fuse F-25 (Input Voltage)
4	—	—	Not Used
5	BRN	DA004B	Horn Relay Control (Coil Control) to Horn Switch

Behind the Center of the I/P, In the Fuse/Relay Center (Cab)


Fuse/Relay Center (Cab)
X-1
X-2
X-3
X-4
X-5
X-6
X-7
X-8
X-9
X-10
X-11
X-12
X-13
X-14
X-15
X-16
F-1
F-15
F-31
F-34
F-16
F-30

4895363

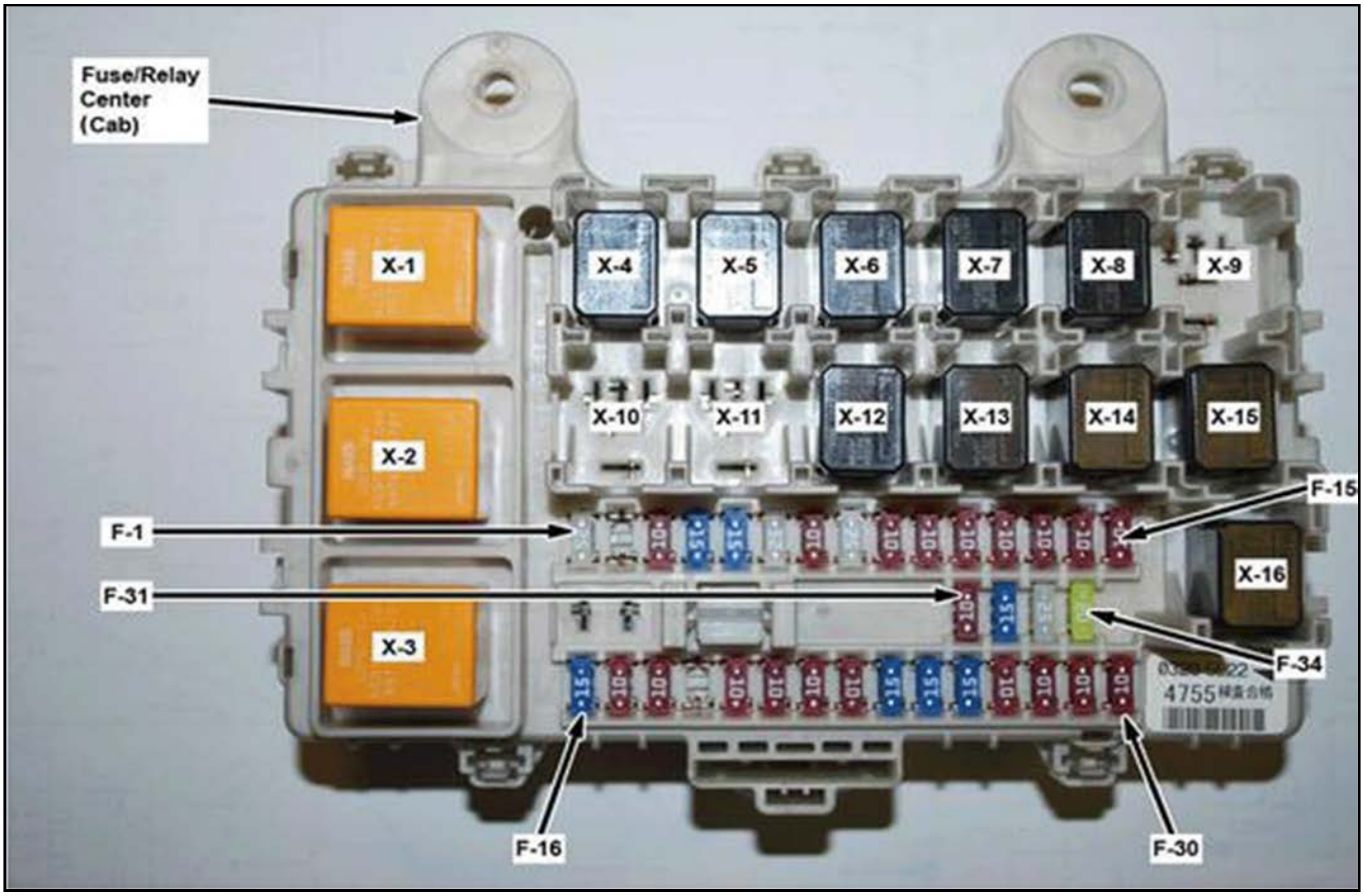
X-8 Wiper High/Low Relay



4893747

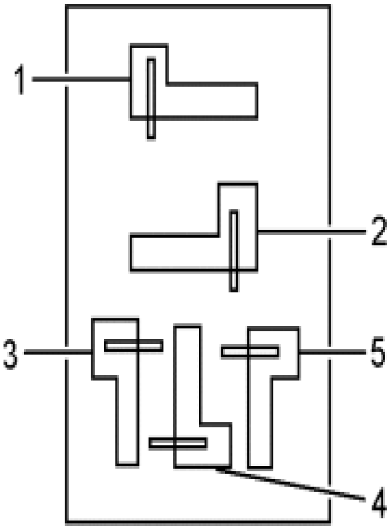
Connector Part Information		• 5-Way F Fuse/Relay Center (Cab)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	—	—	Wiper Main Relay Supply Voltage (30 Input Voltage)
2	BRN/BLK	FA02	Wiper Motor High Voltage (87 Switch Output Voltage)
3	BLK/GRN	FA07	Wiper High Low Relay Control (86 Coil Control)
4	BRN/WHT	FA01	Wiper Motor Low Voltage (87a Normally Closed Output Voltage)
5	—	—	Fuse F-8 Supply Voltage (85 Coil Feed)

Behind the Center of the I/P, In the Fuse/Relay Center (Cab)


Fuse/Relay Center (Cab)
X-1
X-2
X-3
X-4
X-5
X-6
X-7
X-8
X-9
X-10
X-11
X-12
X-13
X-14
X-15
X-16
F-1
F-15
F-31
F-34
F-16
F-30

4895363

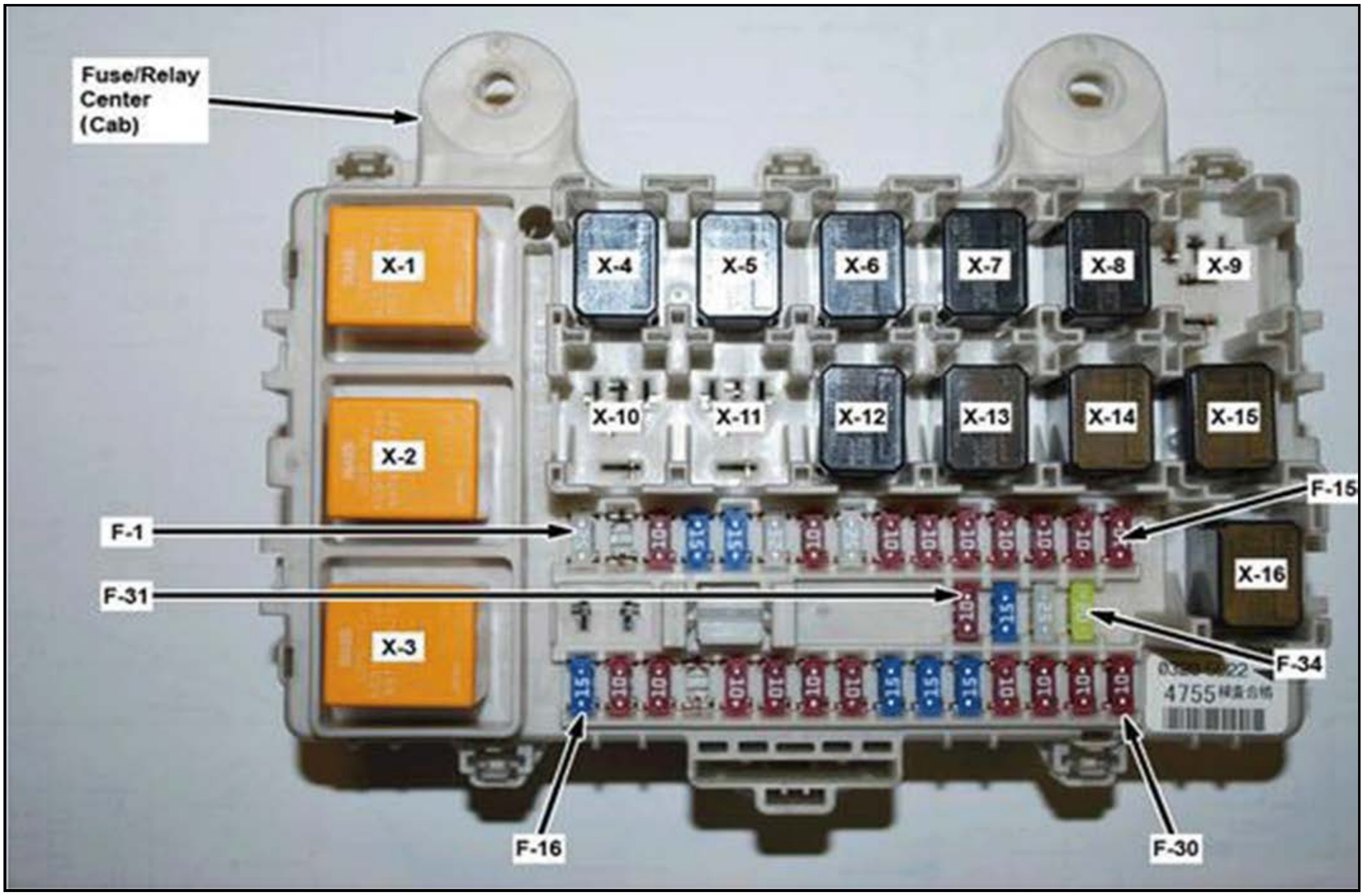
X-12 Power Window Relay



4893747

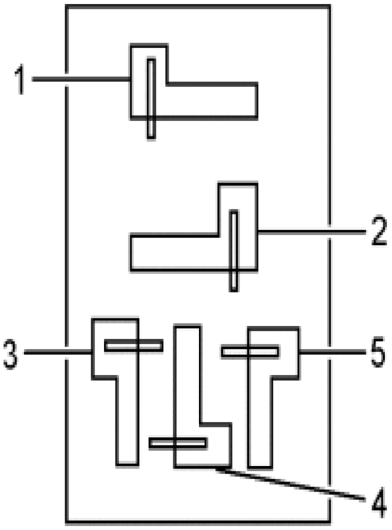
Connector Part Information		• 5-Way F Fuse/Relay Center (Cab)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	—	—	Fuse F-6 Control Voltage (30 Switched Output Voltage)
2	BLK/YEL	PA062	Battery Voltage from Fuse FL-12 (87 Input Voltage)
3	—	—	Fuse F-16 Supply Voltage (86 Coil Feed)
4	—	—	Not Used (87A)
5	GRY	UX002B	Ground to B-601 Splice Pack (85 Coil Control)

Behind the Center of the I/P, In the Fuse/Relay Center (Cab)


Fuse/Relay Center (Cab)
X-1
X-2
X-3
X-4
X-5
X-6
X-7
X-8
X-9
X-10
X-11
X-12
X-13
X-14
X-15
X-16
F-1
F-15
F-31
F-34
F-16
F-30

4895363

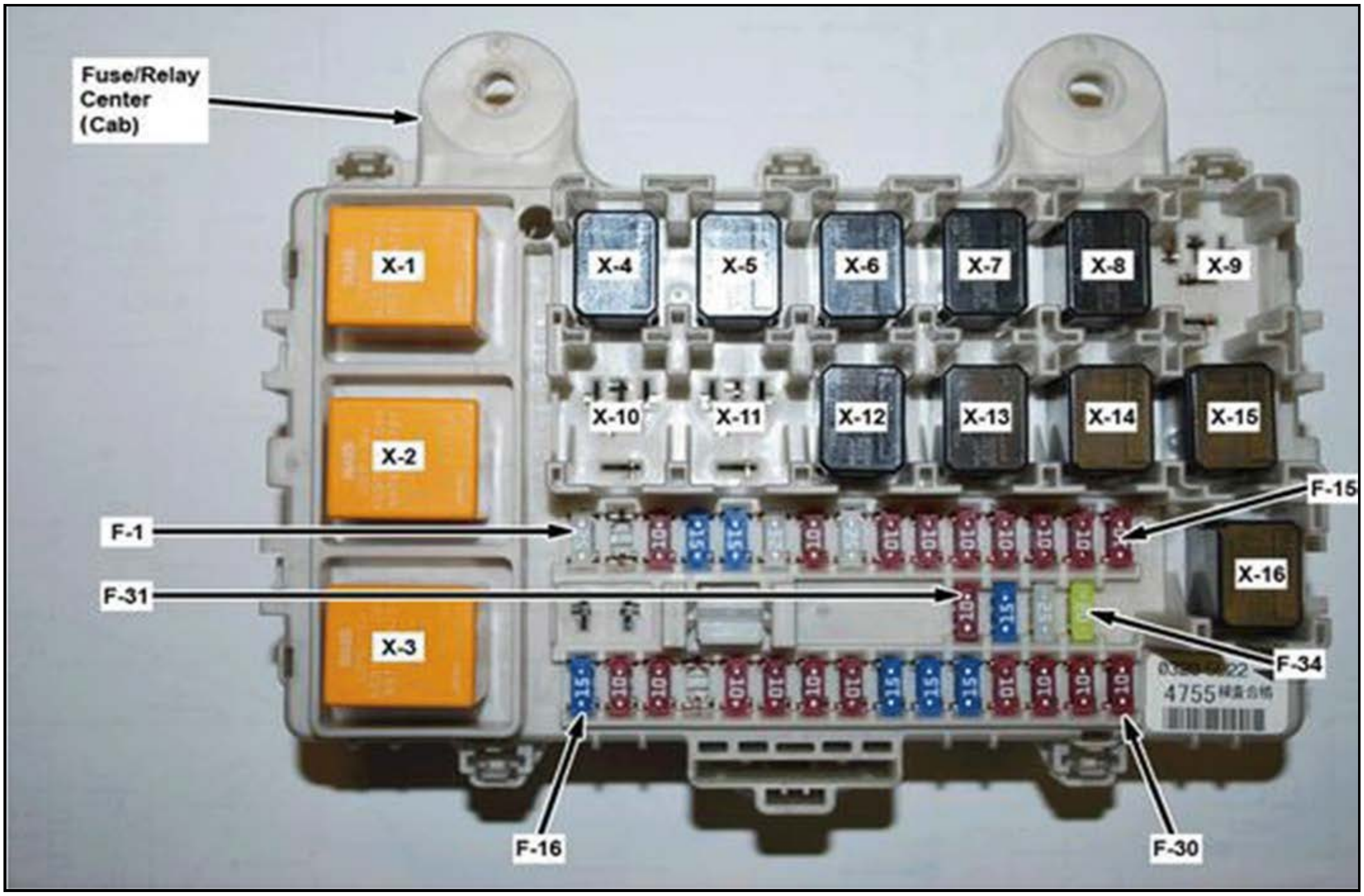
X-13 Headlamp Low Relay



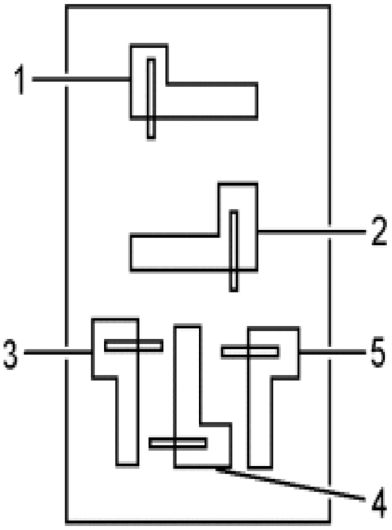
4893747

Connector Part Information		• 5-Way F Fuse/Relay Center (Cab)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	—	—	Control Voltage for Fuses F-9 and F-11 (30 Switched Output Voltage)
2	WHT/RED	PA18	Battery Voltage from Fuse FL-8 Supply Voltage (87 Input Voltage)
3	—	—	Battery Voltage from Fuse F-10 (86 Coil Feed)
4	—	—	Not Used (87a)
5	RED/BLU	AA003B	Headlamp Low Relay Control (85 Coil Control)

Behind the Center of the I/P, In the Fuse/Relay Center (Cab)

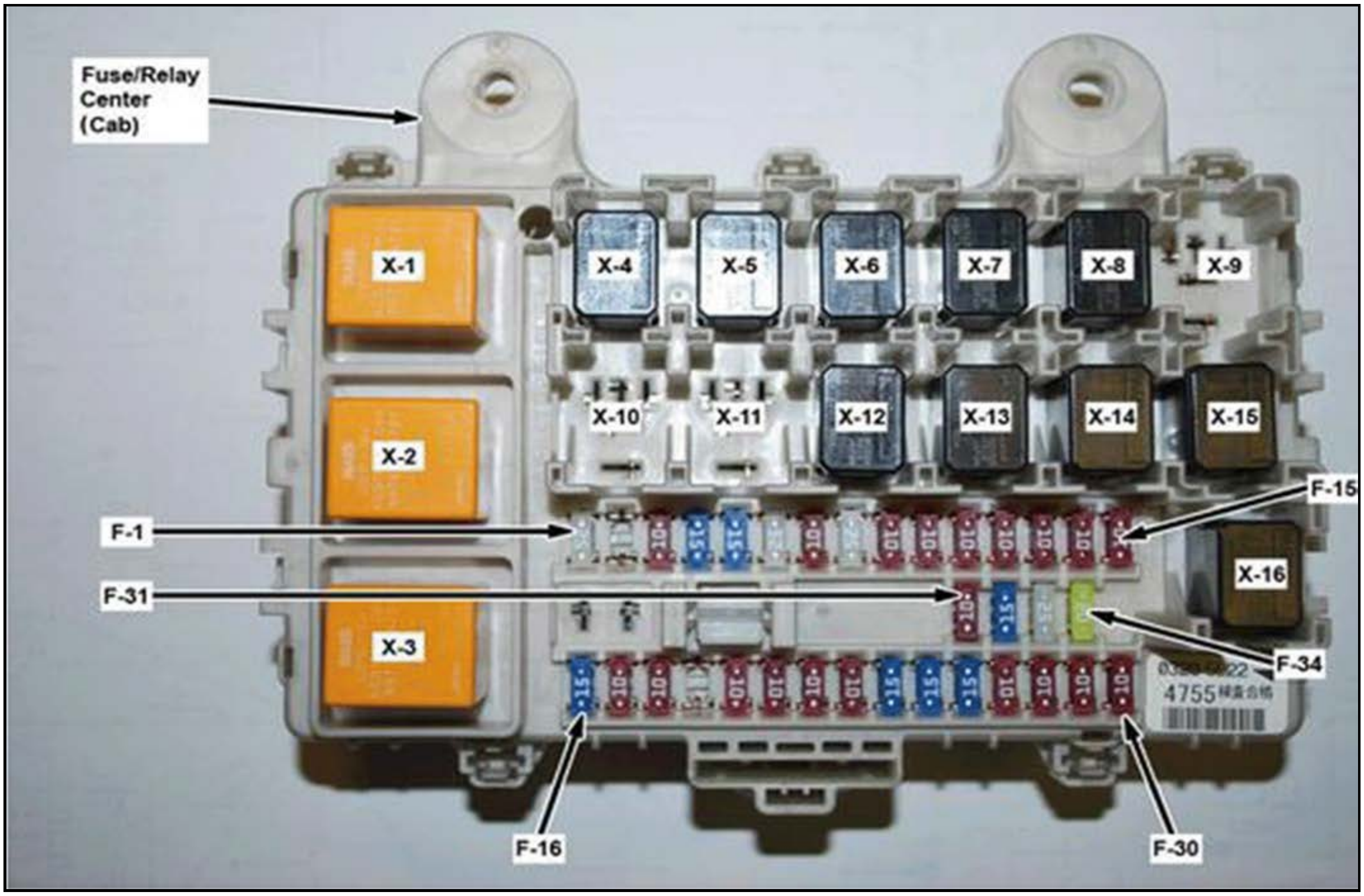

Fuse/Relay Center (Cab)
X-1
X-2
X-3
X-4
X-5
X-6
X-7
X-8
X-9
X-10
X-11
X-12
X-13
X-14
X-15
X-16
F-1
F-15
F-31
F-34
F-16
F-30
4895363

X-15 Headlamp High Relay



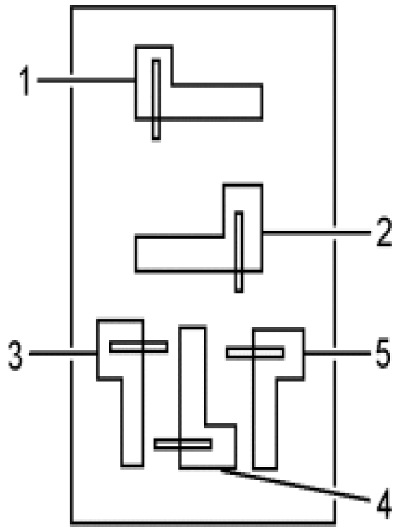
Connector Part Information		• 5-Way F Fuse/Relay Center (Cab)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	—	—	Supply Voltage to Fuses F-14, F-15 (30 Switched Output Voltage)
2	WHT/RED	PA18	Battery Voltage from Fuse FL-8 (87 Input Voltage)
3	—	—	Battery Voltage from Fuse F-10 (86 Coil Feed)
4	—	—	Not Used (87a)
5	RED/WHT	AA02	Headlamp High Relay Control (85 Coil Control)

Behind the Center of the I/P, In the Fuse/Relay Center (Cab)


Fuse/Relay Center (Cab)
X-1
X-2
X-3
X-4
X-5
X-6
X-7
X-8
X-9
X-10
X-11
X-12
X-13
X-14
X-15
X-16
F-1
F-15
F-31
F-34
F-16
F-30

4895363

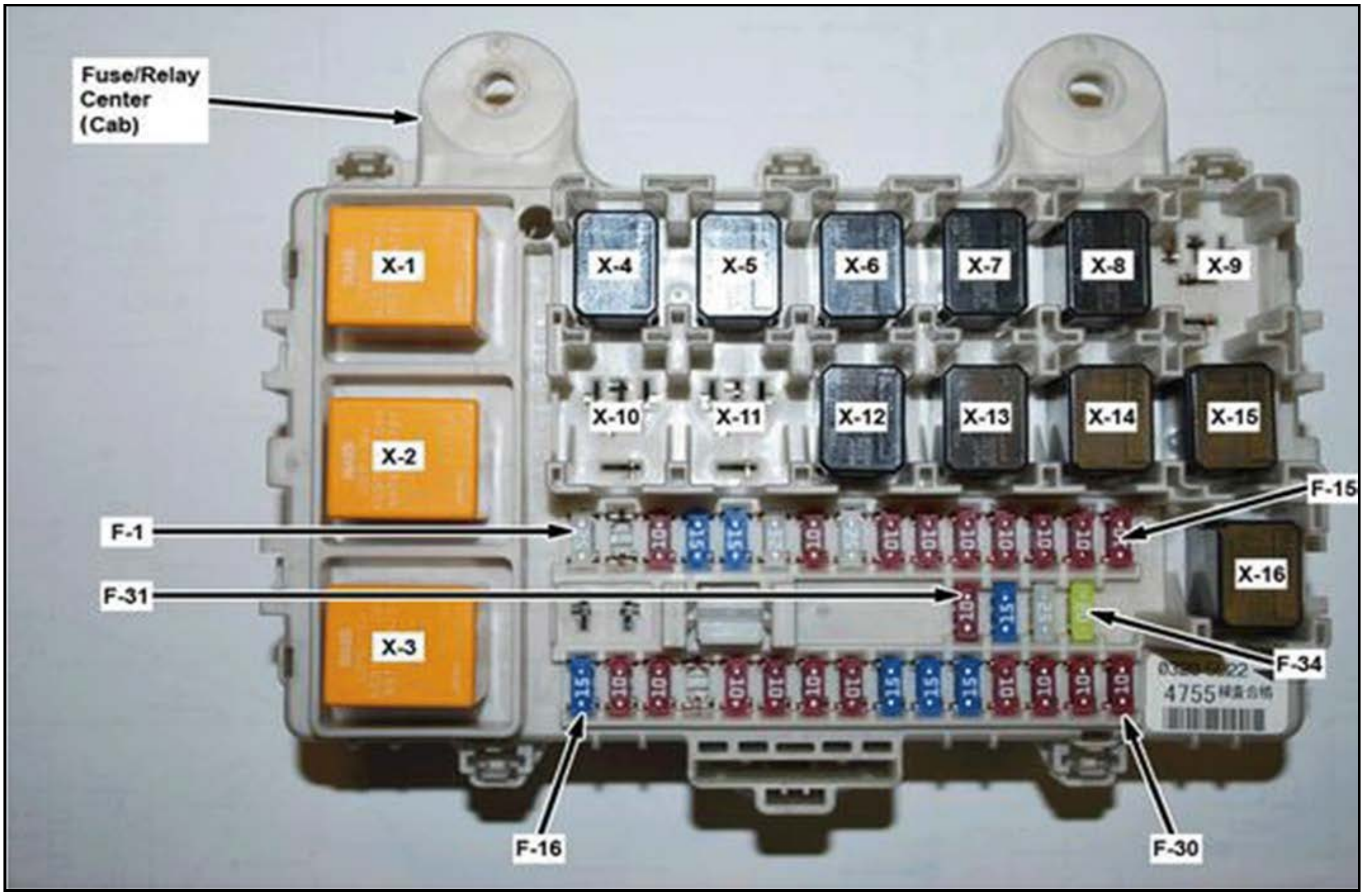
X-16 Tail Lamp Relay



4893747

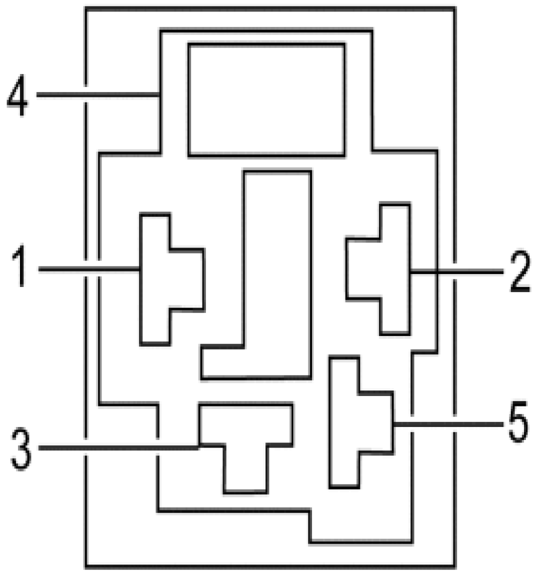
Connector Part Information		• 5-Way F Fuse/Relay Center (Cab)	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	—	—	Fuse F-27, F-28, F-29 Control Voltage (30 Switched Output Voltage)
2	—	—	Battery Voltage from Fuse F-32 (87 Input Voltage)
3	—	—	Battery Voltage from Fuse F-10 (86 Coil Feed)
4	—	—	Not Used (87a)
5	—	—	Tail Lamp Relay Control (85 Coil Control) to Combination Switch

Behind the Center of the I/P, In the Fuse/Relay Center (Cab)


Fuse/Relay Center (Cab)
X-1
X-2
X-3
X-4
X-5
X-6
X-7
X-8
X-9
X-10
X-11
X-12
X-13
X-14
X-15
X-16
F-1
F-15
F-31
F-34
F-16
F-30
4755

4895363

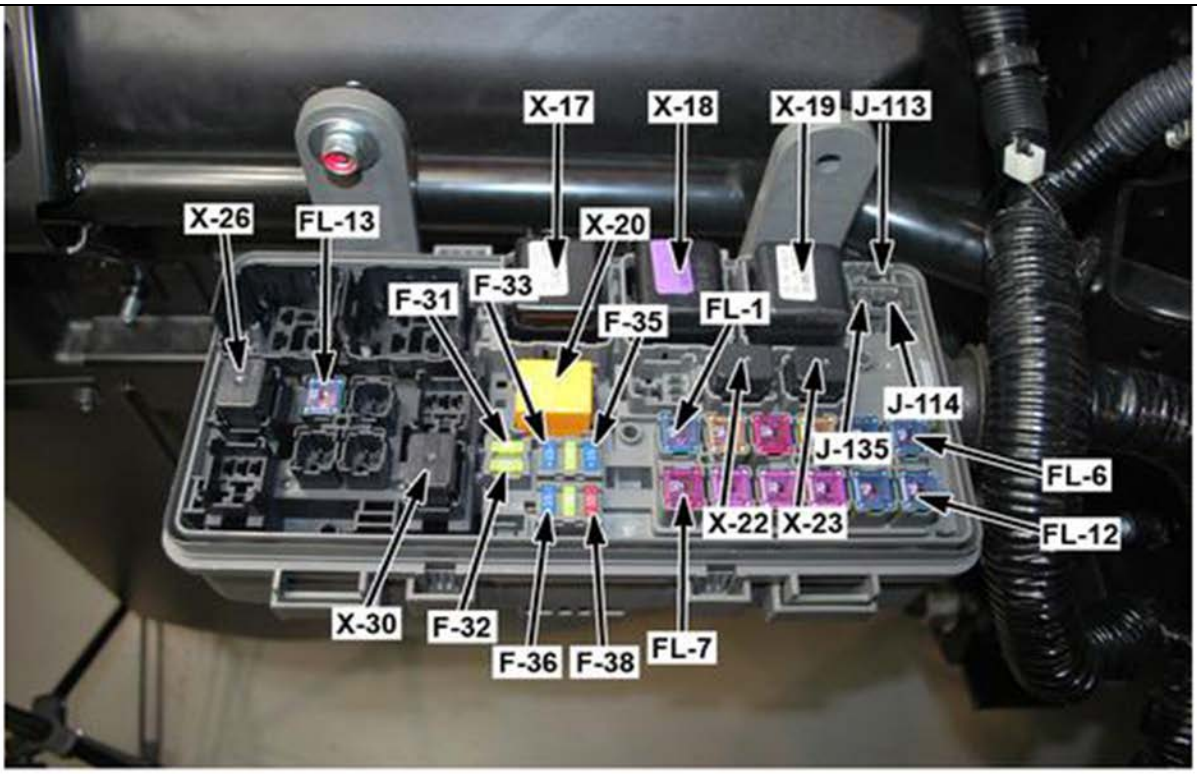
X-17 Starter Relay



4893791

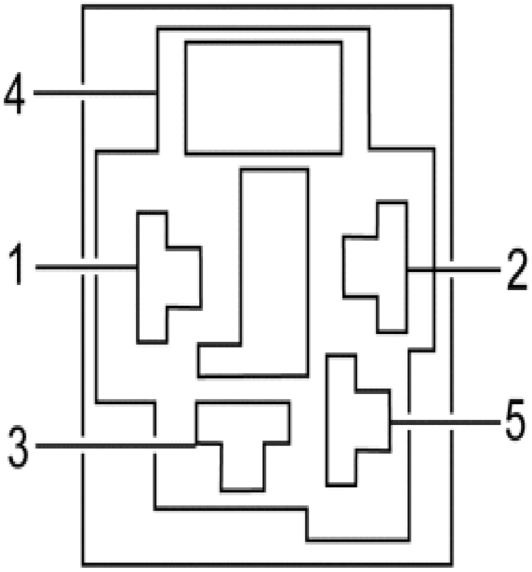
Connector Part Information		• Part of Fuse/Relay Center • 5-Way F Fuse/Relay Center	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT/BLK	LA001C	Battery Voltage from Fuse FL-2 (Input Voltage)
2	BLK/WHT	LA002C	Starter Solenoid Control (Switched Output Voltage)
3	BLK/WHT	LA013C	Ignition Voltage from Fuse F-13 (Coil Control)
4	—	—	Not Used
5	WHT/BLK	IC019C	Relay Control to ECM (Coil Control)

Left Outer Frame Rail, In the Fuse/Relay Center


X-17
X-18
X-19
J-113
X-26
FL-13
X-20
F-31
F-33
F-35
FL-1
J-114
J-135
FL-6
X-22
X-23
FL-12
X-30
F-32
F-36
F-38
FL-7

4892760

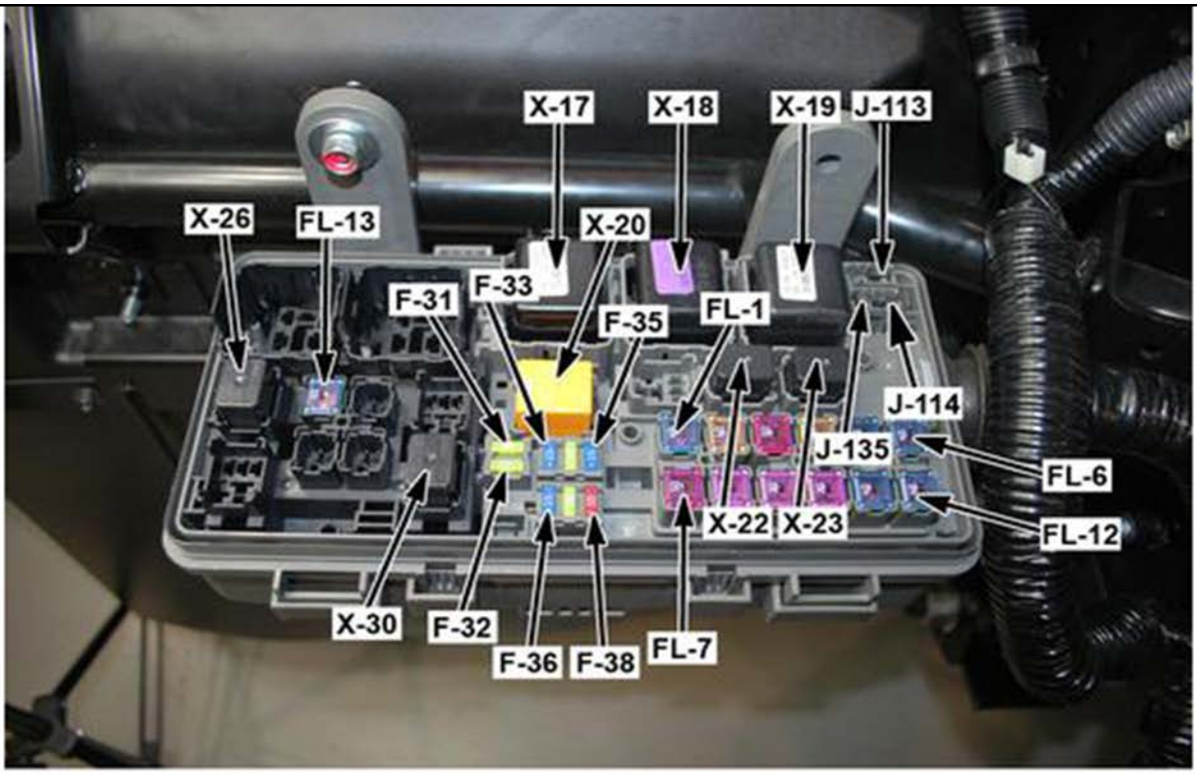
X-18 ECM Main Relay



4893791

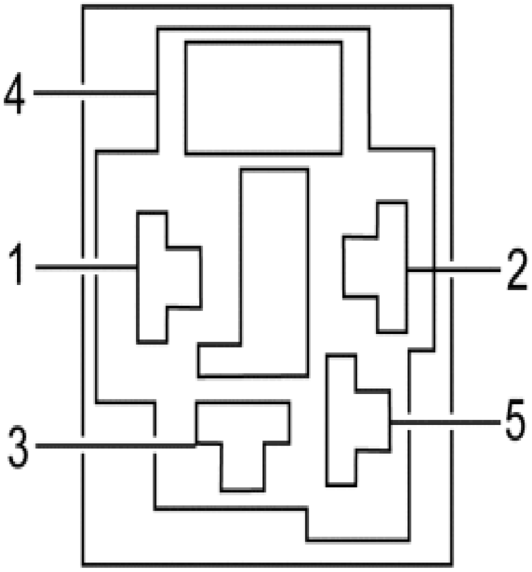
Connector Part Information		• Part of Fuse/Relay Center • 5-Way F Fuse/Relay Center	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT/GRN	IC082C	Battery Voltage from Fuse FL-1 (87 Input Voltage)
2	WHT/RED	IC053C	ECM Main Relay (30 Switched Output Voltage) to Splice 15
3	WHT/GRN	IC204C	Battery Voltage from Fuse FL-1 (86 Coil Feed)
4	—	—	Not Used (87a)
5	BLU/YEL	IC064C	ECM Main Relay (Coil Control) to ECM

Left Outer Frame Rail, In the Fuse/Relay Center


X-17
X-18
X-19
J-113
X-26
FL-13
X-20
F-33
F-31
F-35
FL-1
J-114
J-135
FL-6
X-22
X-23
FL-12
X-30
F-32
F-36
F-38
FL-7

4892760

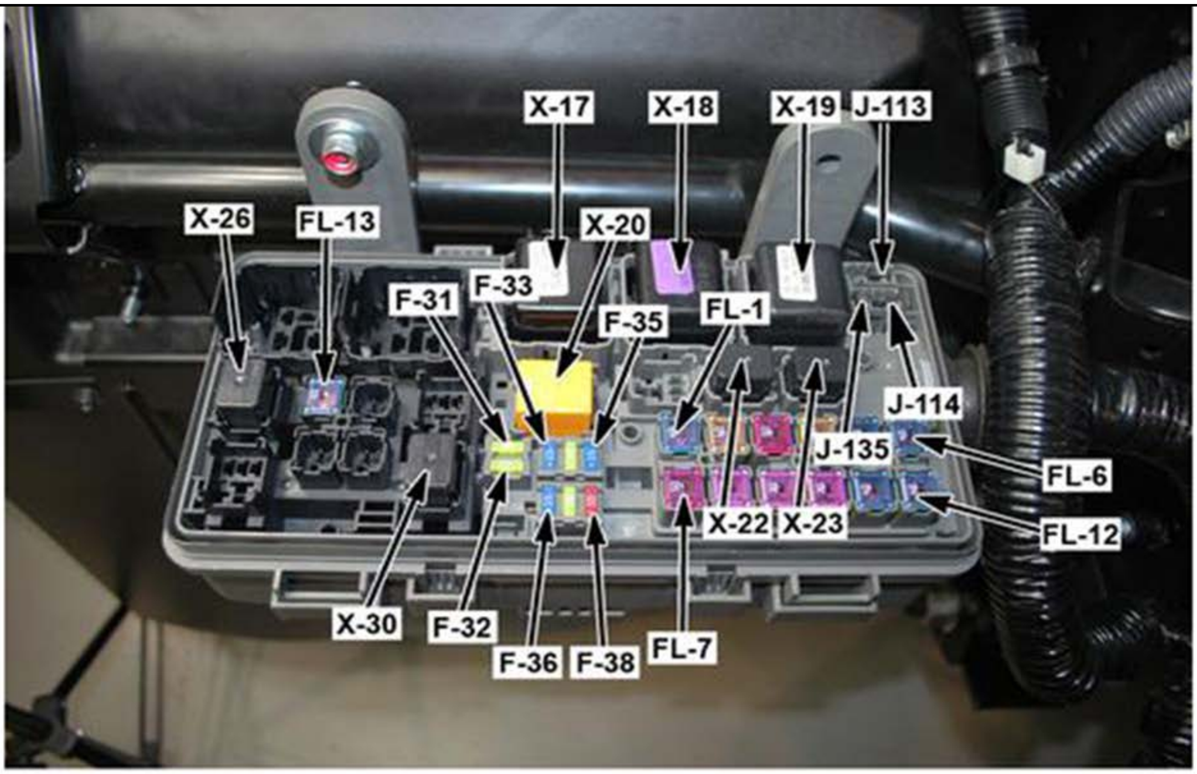
X-19 NOx and DEF Sensor Relay



4893791

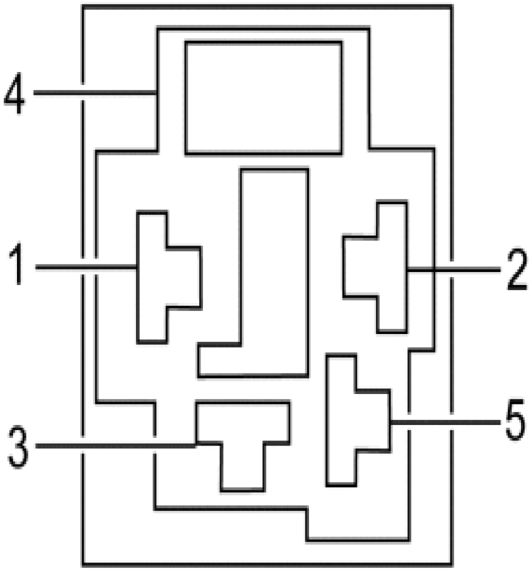
Connector Part Information		• Part of Fuse/Relay Center • 5-Way F Fuse/Relay Center	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT	FG001C	Battery Voltage from Fuse F-34 (Input Voltage)
2	BLK/ORN	FG007C FG046C	Diesel Exhaust Fluid (DEF) Tank and Temperature Sensor Control NOx Sensors 1 and 2 (Switch ed Output Voltage)
3	WHT	FG017C	Battery Voltage from Fuse F-34 (Coil Feed)
4	—	—	Not Used
5	ORN	FG016C	Relay Control to DEF Control Module (Coil Control)

Left Outer Frame Rail, In the Fuse/Relay Center


X-17
X-18
X-19
J-113
X-26
FL-13
X-20
F-33
F-31
F-35
FL-1
J-114
J-135
FL-6
X-22
X-23
FL-12
X-30
F-32
F-36
F-38
FL-7

4892760

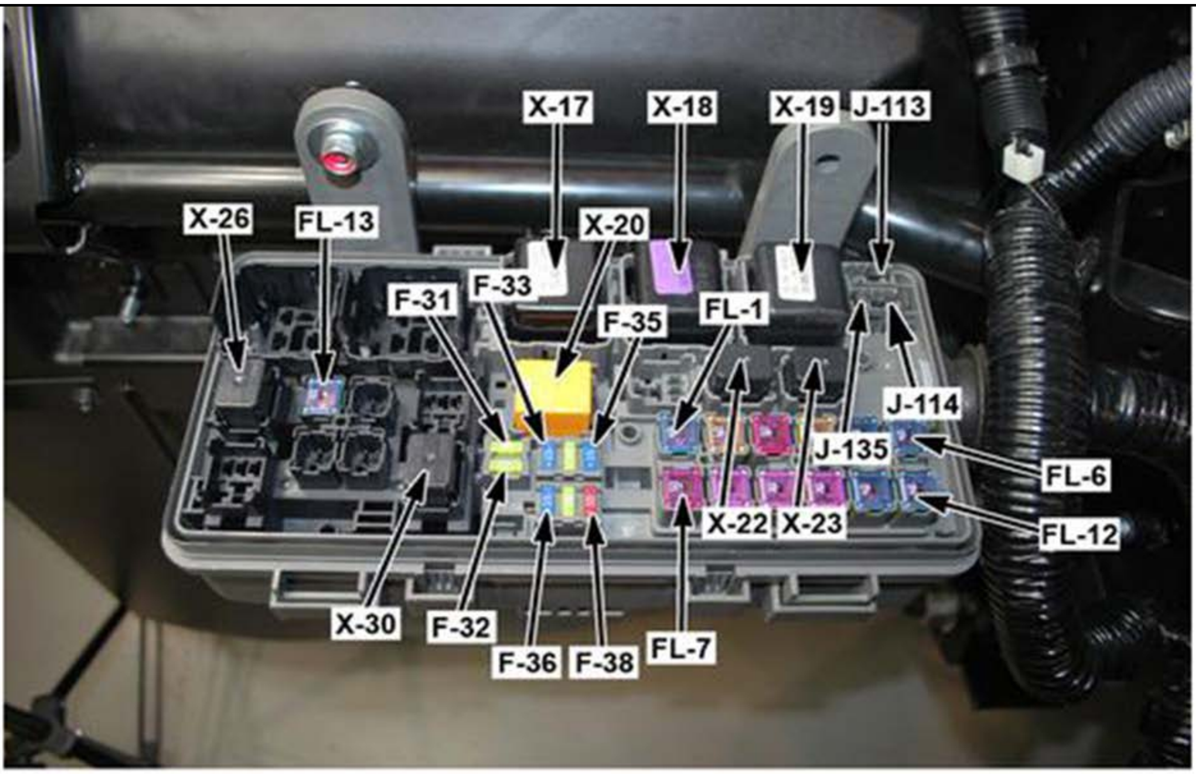
X-20 Compressor Clutch Relay



4893791

Connector Part Information		- Part of Fuse/Relay Center - 5-Way F Fuse/Relay Center	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	PNK	HA029C	Battery Voltage from Fuse F-38 Supply (30 Input Voltage)
2	BLU	HA066C	Switched Output Voltage to J/B 1 (B-131 pin 9)
3	BLK/RED	HA062C	Fuse F-30 Voltage (Fan Control Switch ON) (Coil Feed)
4	—	—	Not Used (87a)
5	GRY	HA010C	Coil Control to Electronic Thermostat

Left Outer Frame Rail, In the Fuse/Relay Center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X-18
X-19
J-113
X-26
FL-13
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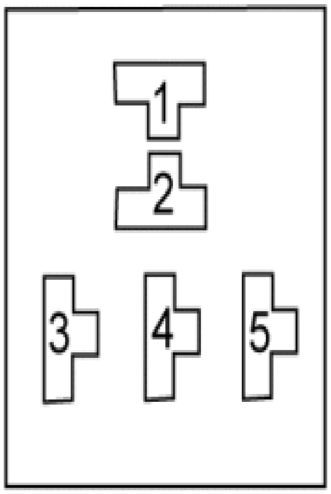
F-31
F-33
F-35
FL-1
J-114
J-135
FL-6
X-22
X-23
FL-12
X-30
F-32
F-36
F-38
FL-7

4892760

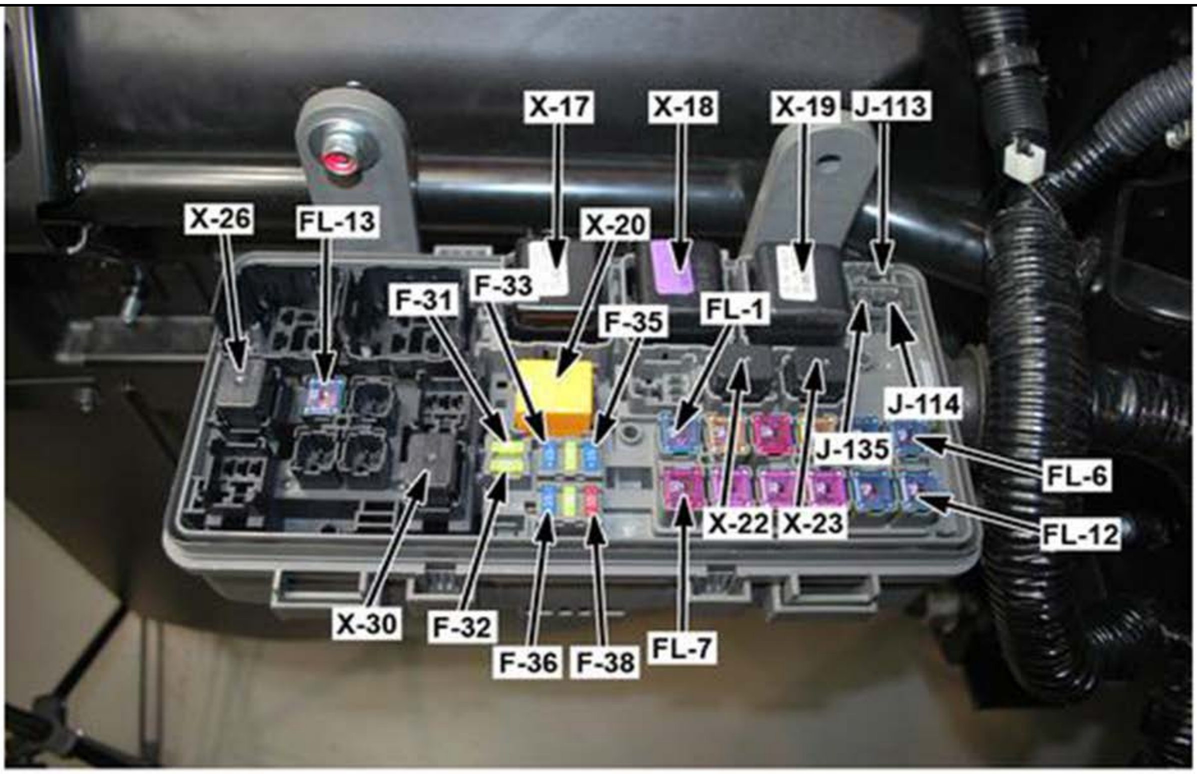
X-22 Rear Dome Lamp Relay



4893802

Connector Part Information		• Part of Fuse/Relay Center • 5-Way F Fuse/Relay Center	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	WHT/BLK	IA028C	Rear Dome Lamp Relay Output Voltage to Rear Manufacturer Connector
2	WHT	IA021C	Battery Voltage from Fuse FL-9 (87 Input Voltage)
3	RED	IA022C	Battery Voltage from Fuse F-36 (86 Coil Feed)
4	—	—	Not Used (87a)
5	YEL	IA019C	Rear Dome Lamp Relay Control (85 Coil Control)

Left Outer Frame Rail, In the Fuse/Relay Center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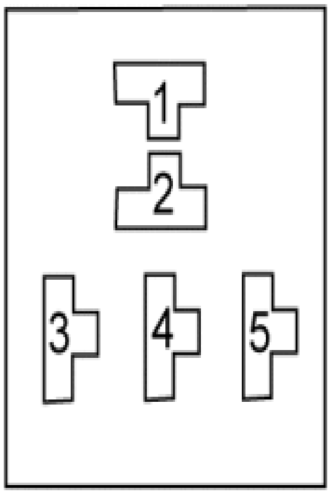
X-18
X-19
J-113
X-26
FL-13
X-20
F-31
F-33
F-35
FL-1
J-114
J-135
FL-6
X-22
X-23
FL-12
X-30
F-32
F-36
F-38
FL-7

4892760

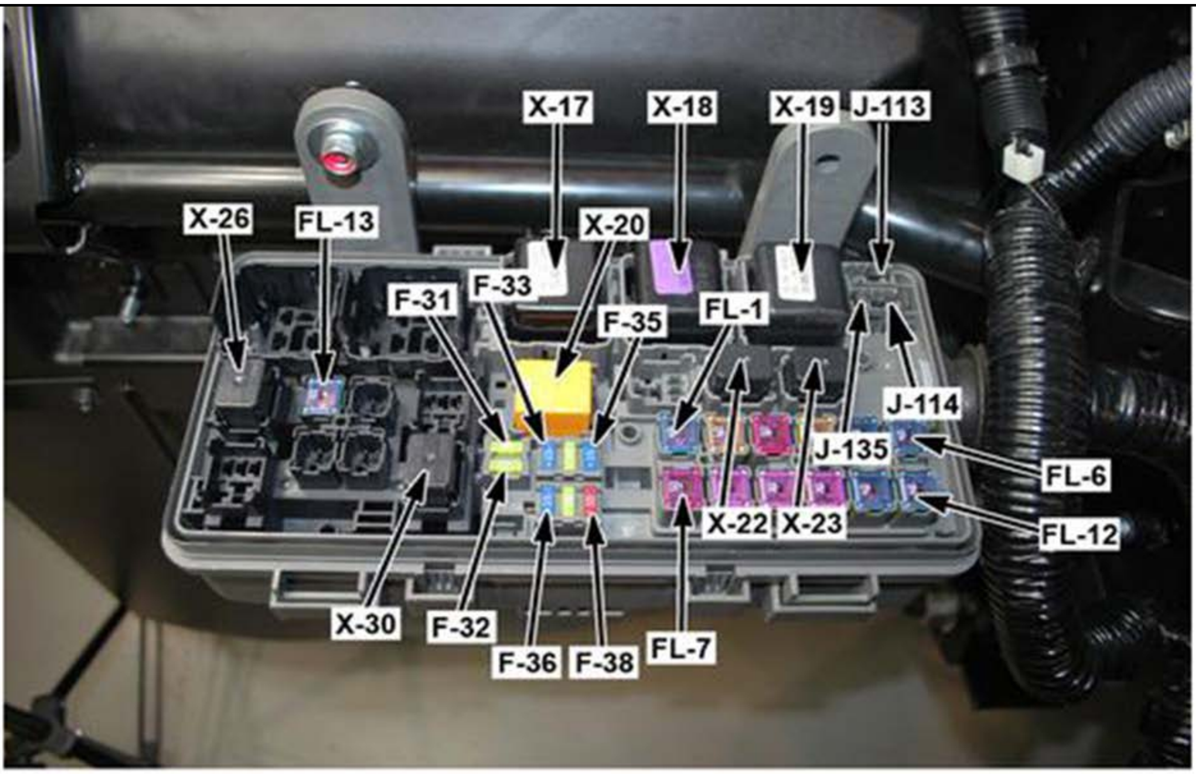
X-23 Heater Valve Relay (SCR)



4893802

Connector Part Information		• Part of Fuse/Relay Center • 5-Way F Fuse/Relay Center	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	RED/WHT	FG011C	DEF Tank Heater Coolant Control Valve Control (30 Switched Output Voltage)
2	WHT	FG015C	Fuse F34 Voltage Supply (87 Input Voltage)
3	LT GRN	FG014C	Relay Control (86 Coil Control)
4	—	—	Not Used (87a)
5	GRY	FG013C	Relay Control (85 Coil Feed)

Left Outer Frame Rail, In the Fuse/Relay Center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X-18
X-19
J-113
X-26
FL-13
X-20
F-33
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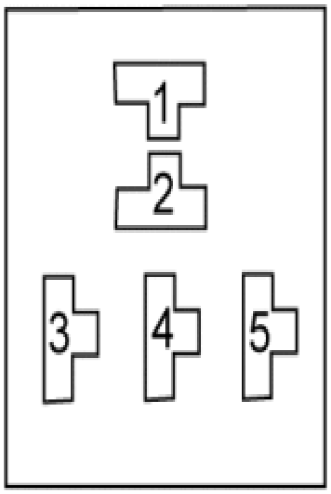
F-35
FL-1
J-114
J-135
FL-6
X-22
X-23
FL-12
X-30
F-32
F-36
F-38
FL-7

4892760

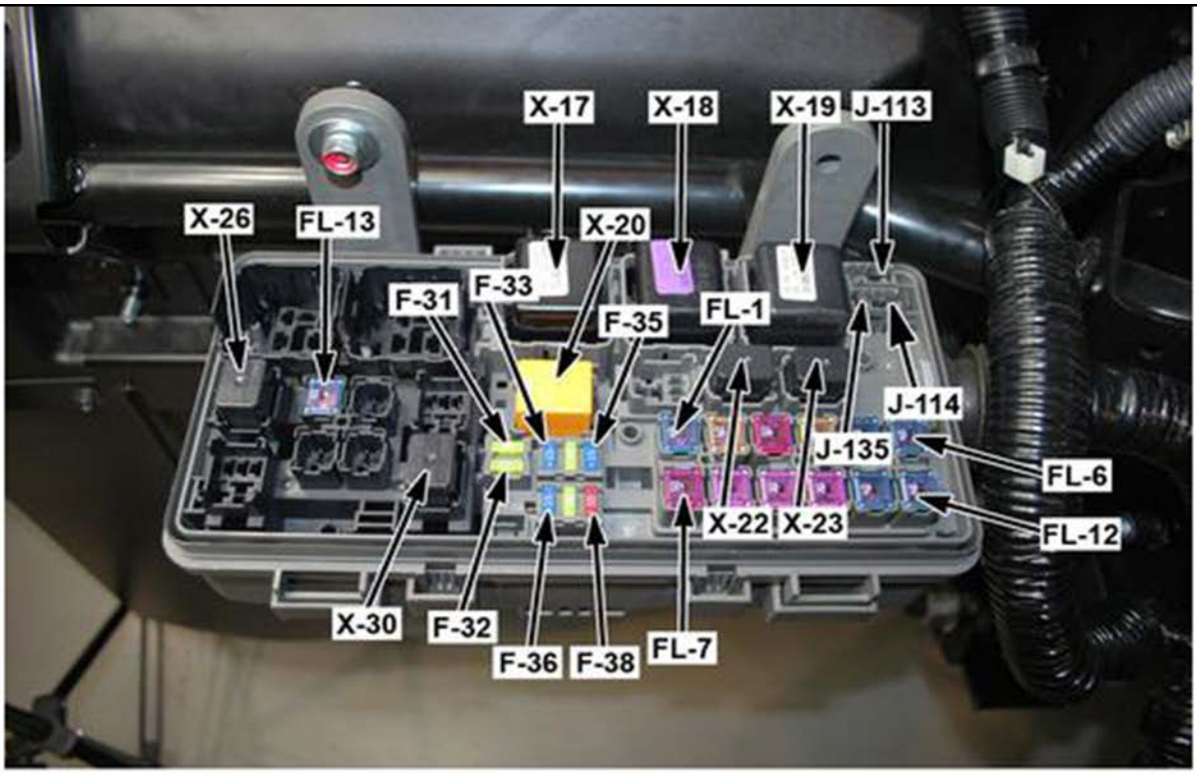
X-26 Marker Lamp Relay



4893802

Connector Part Information		- Part of Fuse/Relay Center - 5-Way F Fuse/Relay Center	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	LT GRN/BLK	BA048C	Marker Lamp Relay Output Voltage - Rear Manufacture Connector (30 Switched Output Voltage)
2	LT GRN	BA034C	Battery Voltage from Fuse F-31 (87 Input Voltage)
3	GRN/RED	BA029C	Fuse F-27 Voltage (HeadLamp Switch ON) (86 Coil Feed)
4	—	—	Not Used (87a)
5	BLK	BY003C	J-298 Ground (85 Coil Control)

Left Outer Frame Rail, In the Fuse/Relay Center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X-18
X-19
J-113
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FL-13
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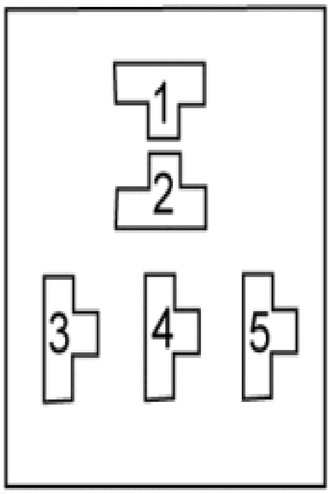
F-33
F-31
F-35
FL-1
J-114
J-135
FL-6
X-22
X-23
FL-12
X-30
F-32
F-36
F-38
FL-7

4892760

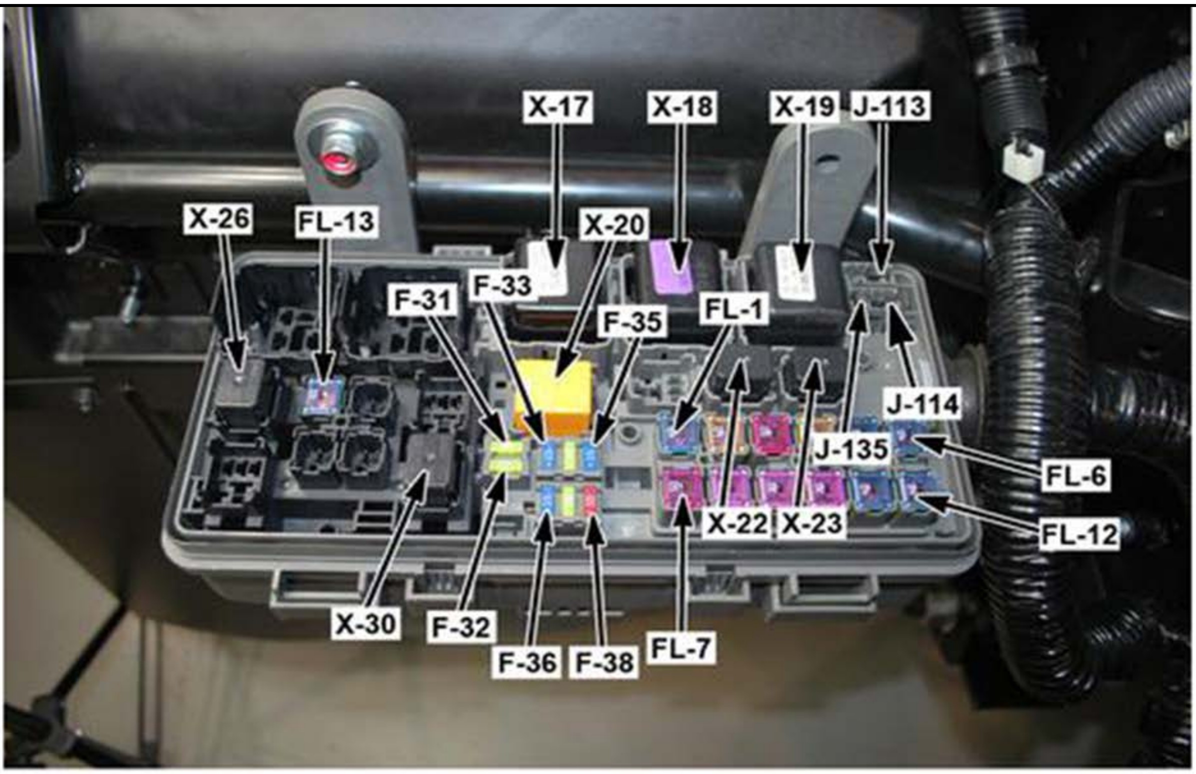
X-30 Fuel Heater Relay



4893802

Connector Part Information		• Part of Fuse/Relay Center • 5-Way F Fuse/Relay Center	
Pin	**Wire Color**	**Circuit Number**	**Function**
1	BLK/RED	LB006C	Fuel Heater Control (30 Switched Output Voltage)
2	WHT	LB102C	Fuse F-33 Supply Voltage (87 Input Voltage)
3	WHT/BLU	LB001C	Relay Control (86 Coil Feed)
4	—	—	Not Used (87a)
5	BLK	LY001C	Ground to Splice 2 (J-11 and J-8 Ground) (85 Coil Control)

Left Outer Frame Rail, In the Fuse/Relay Center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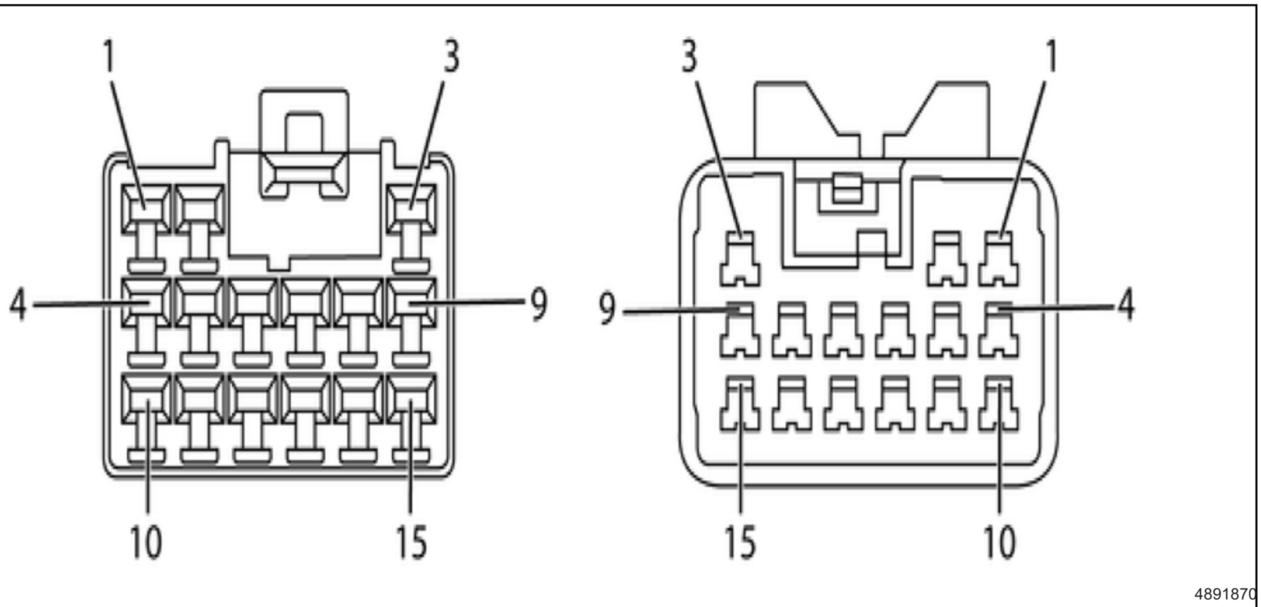
X-18
X-19
J-113
X-26
FL-13
X-20
F-31
F-33
F-35
FL-1
J-114
J-135
FL-6
X-22
X-23
FL-12
X-30
F-32
F-36
F-38
FL-7

4892760

Visual Identification

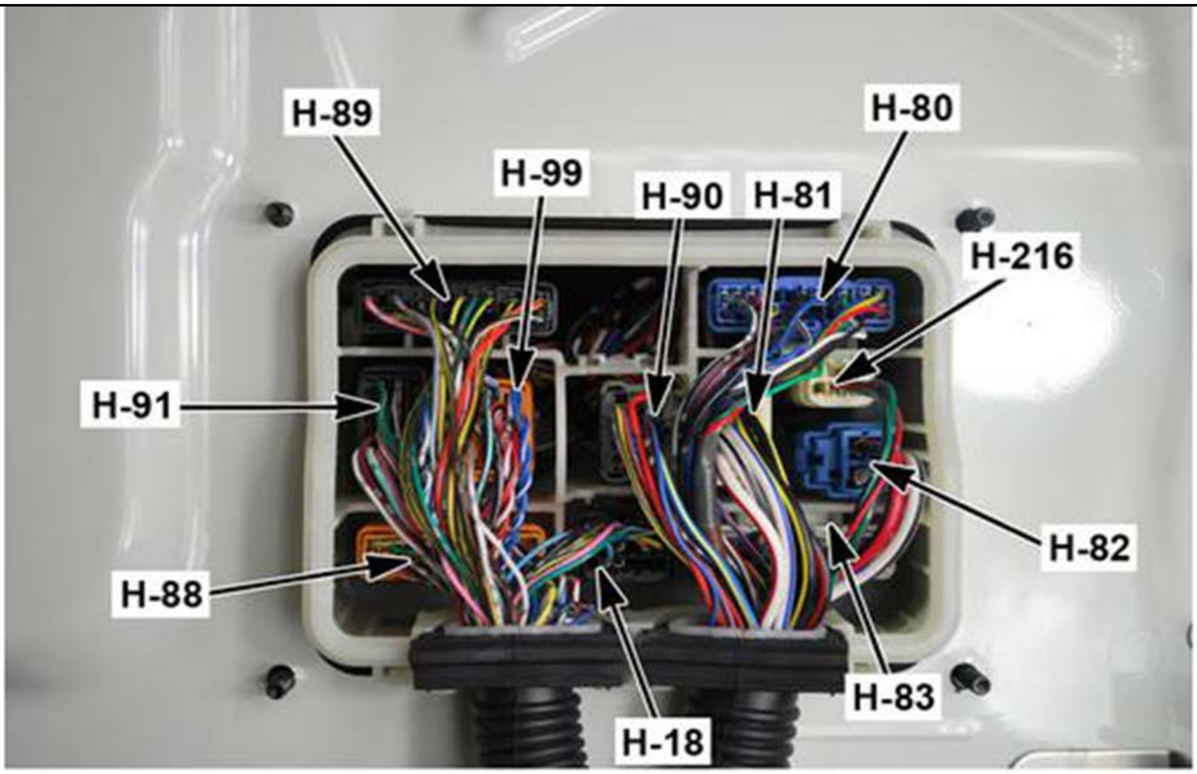
Inline Harness Connector End Views

H-18 Front Chassis Harness to I/P Harness



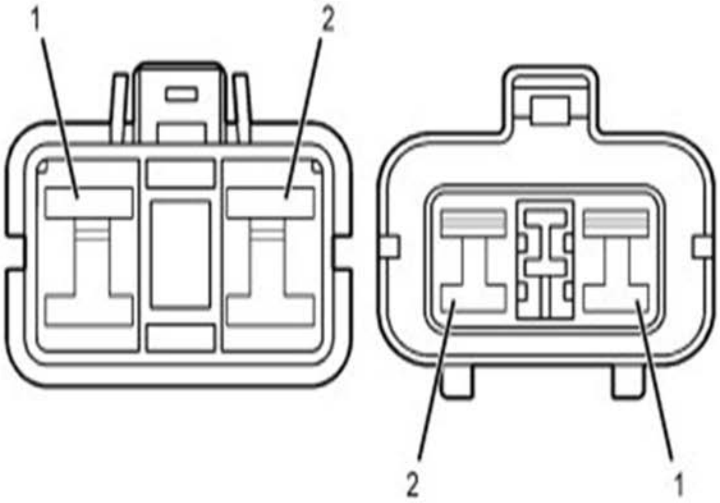
Connector Part Information	• 7383-1150-30 • 15-Way F (BLK)			Connector Part Information	• 7382-1150-30 • 15-Way M (BLK)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	BLU/YEL	MA002C	Engine Oil Pressure Switch Signal from Switch	1	BLU/YEL	MA002B	Engine Oil Pressure Switch Signal to IPC
2	GRN/WHT	MA051C	Oil Level Switch Signal from Switch	2	GRN/WHT	MA051B	Oil Level Switch Signal to IPC
3	—	—	Not Used	3	—	—	Not Used
4	YEL	OA040C	Range indicator to TCM	4	YEL	OA040B	Range indicator to B-246 Body Builder Connector
5	PNK	OA041C	Auto Neutral to TCM	5	PNK	OA041B	Auto Neutral to B-246 Body Builder Connector
6	—	—	Not Used	6	—	—	Not Used
7	BRN	OA044C	Range Inhibitor Switch to TCM	7	BRN	OA044B	Range Inhibitor Switch to B-246 Body Builder Connector
8–12	—	—	Not Used	8–12	—	—	Not Used
13	BLK	OA046C	Digital Return to TCM	13	BLK	OA046B	Digital Return to B-246 Body Builder
14	LT BLU	OA047C	PTO Output to TCM	14	LT BLU	OA047B	PTO Output to B-246 Body Builder Connector
15	—	—	Not Used	15	—	—	Not Used

Front of the Cab, Behind the Washer Fluid Reservoir


H-89
H-99
H-90
H-81
H-80
H-216
H-91
H-82
H-88
H-83
H-18

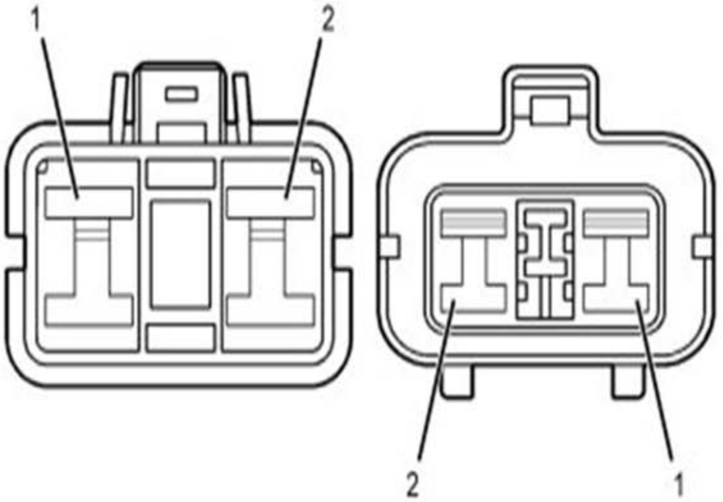
4891871

H-31 Door Harness (LH) to I/P Harness



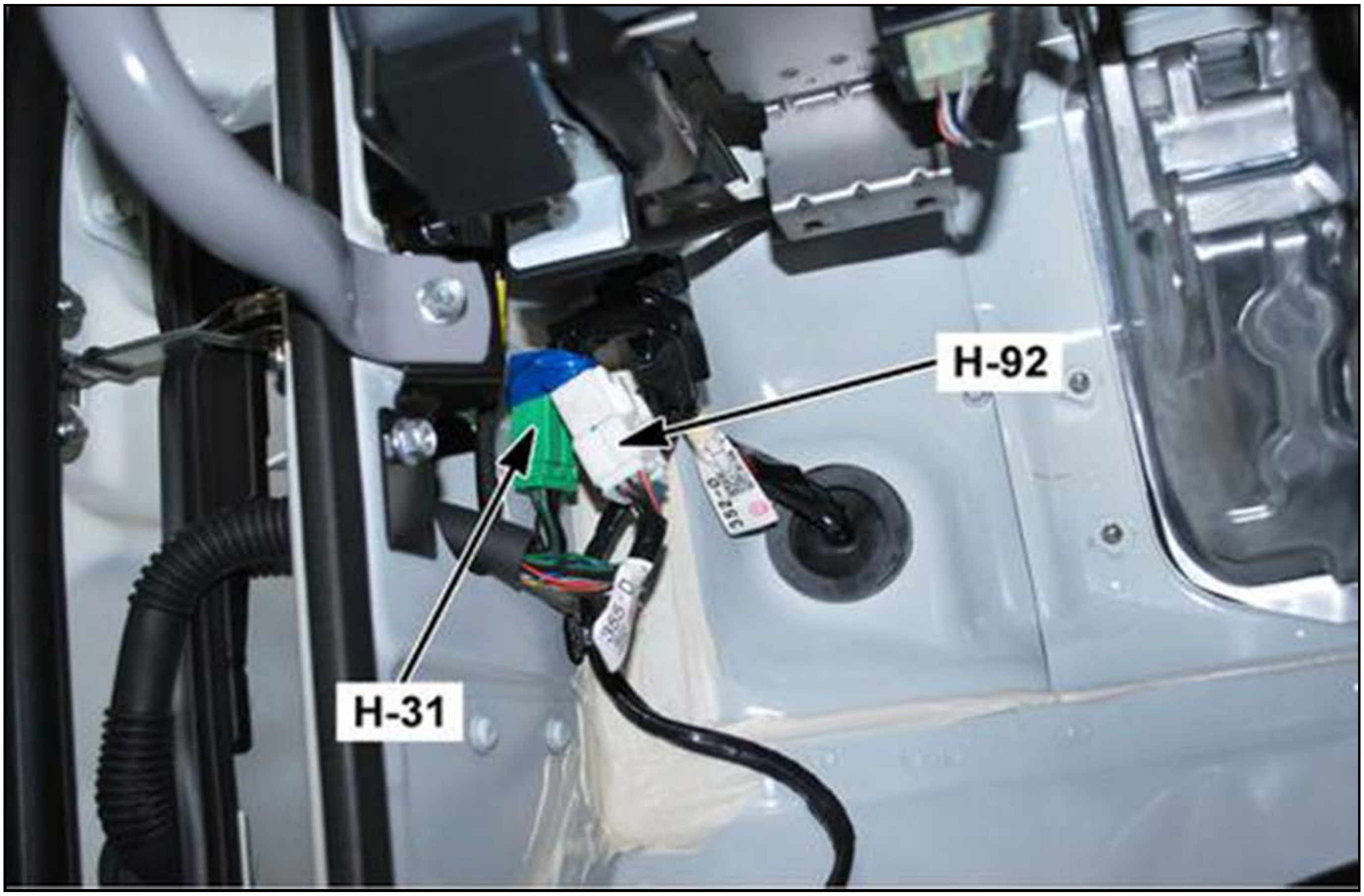
4891874

Connector Part Information		7323-8370-60 10-Way F (GRN)		Connector Part Information		7323-8370-60 10-Way M (GRN)	
Pin	Wire Color	Circuit No	Function	Pin	Wire Color	Circuit No	Function
1	—	—	Not Used	1	—	—	Not Used



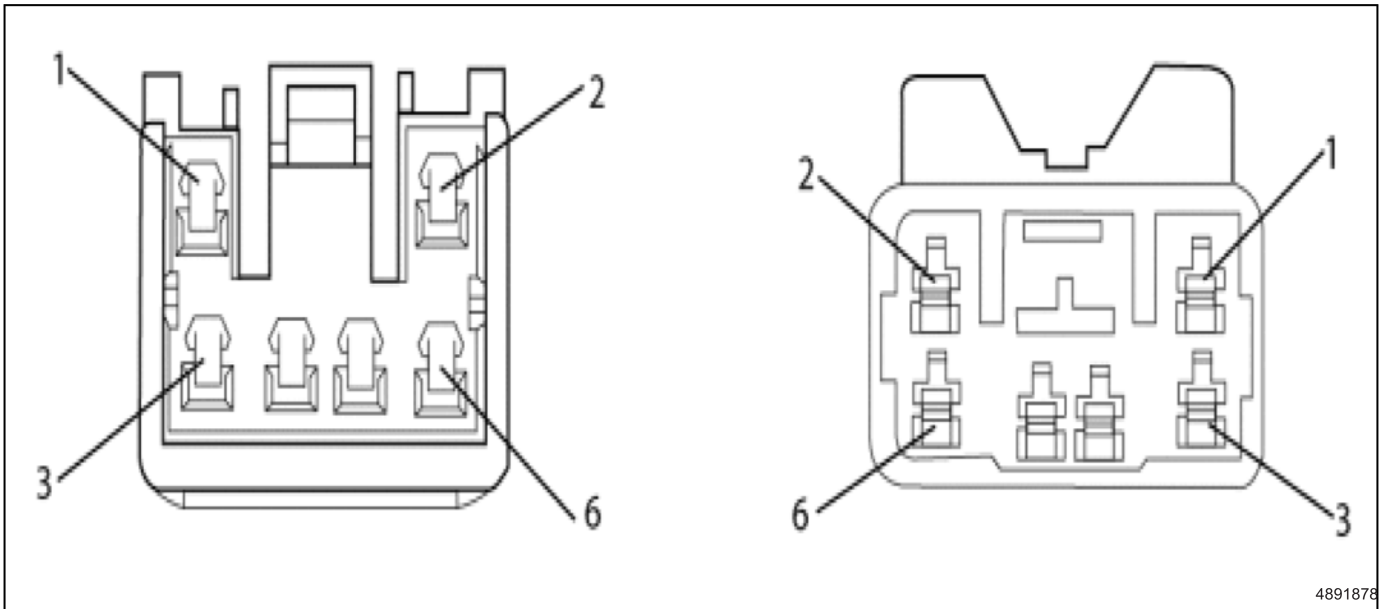
Connector Part Information		• 7323-8370-60 • 10-Way F (GRN)		Connector Part Information		• 7323-8370-60 • 10-Way M (GRN)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
2	BLK	JX03	Ground to B-377 Splice Pack (B-51 Ground) to Side Turn Signal Lamp (LH)	2	BLK	JX004B	Ground to B-377 Splice Pack (B-51 Ground)
3	GRN/WHT	JA11	Side Turn Signal (LH) Control Voltage to Lamp	3	GRN/BLK	JA010B	Side Turn Signal (LH) Control Voltage from Flasher Module
4	GRN/RED	BA40	Fuse F-27 Voltage (Headlamp Switch ON) to Side Marker Lamps (LH)	4	GRN/RED	BA040B	Fuse F-27 Voltage (Headlamp Switch ON) from J/B 1 (B-132 pin 8)
5	BLK	VX103	B-51 Ground to Front Door Lock Motor (LH)	5	BLK	VX003B	B-51 ground from B-600 Splice Pack
6	BLK	UX01	Ground to B-49 Junction Block (B-52 Ground)	6	BLK	UX001B	Ground to B-49 Junction Block (B-52 Ground) to Power Window Switch (LH)
7	GRY	RA06	Left Speaker Output (+) to Speaker	7	ORN	RA004B	Left Speaker Output (+) to Radio
8	—	—	Not Used	8	—	—	Not Used
9	GRN	RA05	Left Speaker Output (-) to Speaker	9	BLK	RA003B	Left Speaker Output (-) to Radio
10	BLK	BX24	Ground from B-601 Splice Pack (B-51 Ground)	10	BLK	BX024B	Ground to B-601 Splice Pack (B-51 Ground) to Side Marker Lamp (LH)

Behind the Left Side of the I/P, Next to the A-Piller



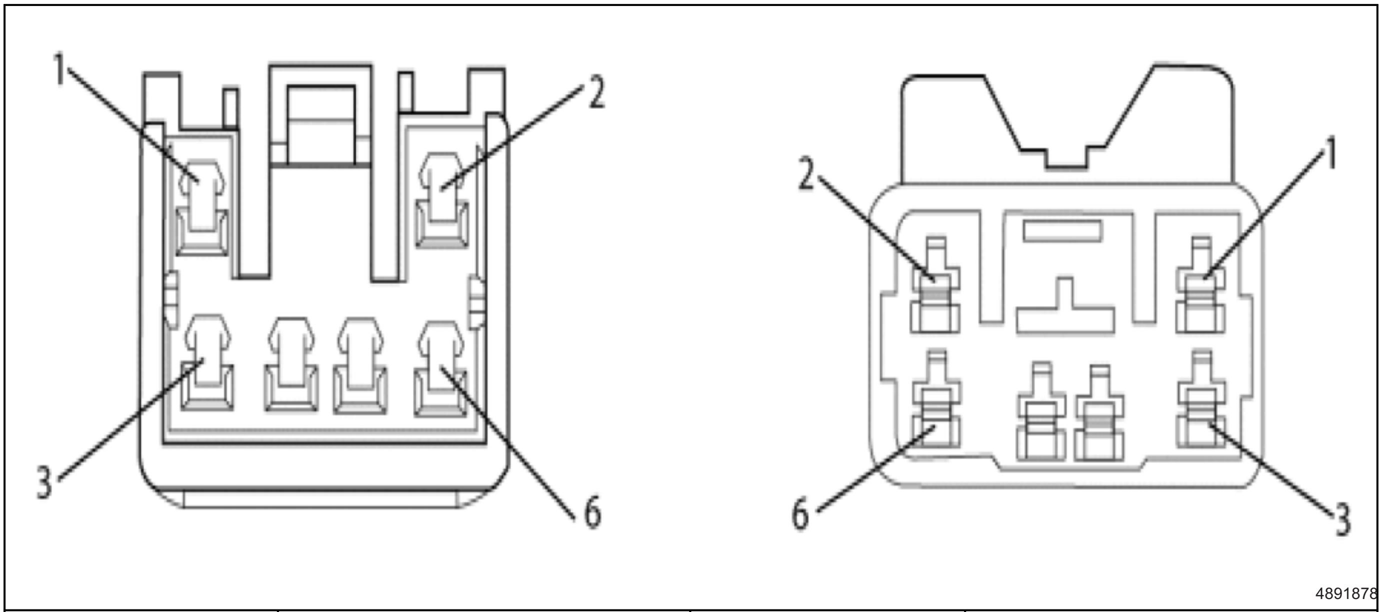
4891876

H-32 Door Harness (RH) to I/P Harness



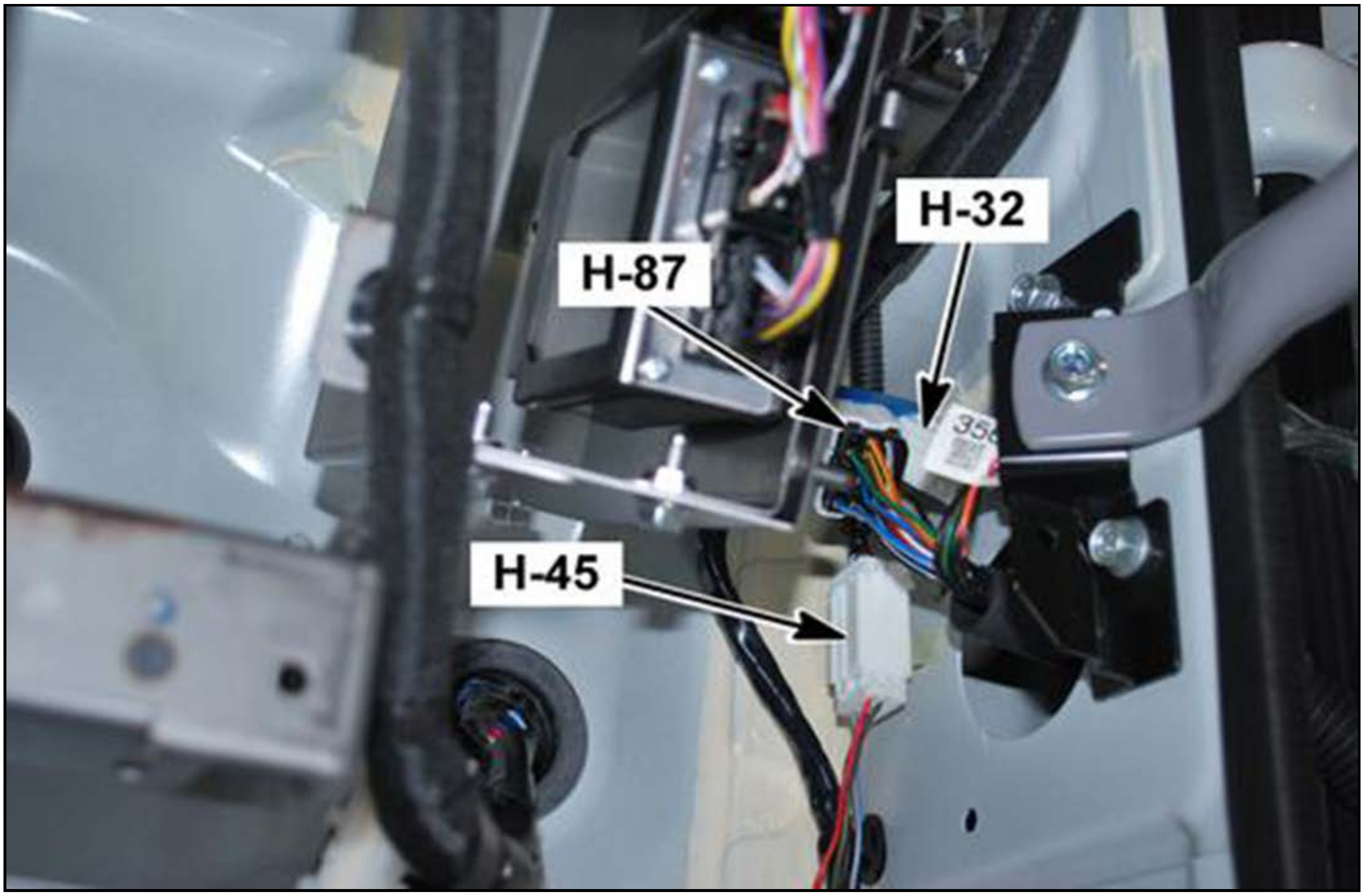
4891878

Connector Part Information		• 7323-8365 • 6-Way F (WHT)		Connector Part Information		• 7323-8365 • 6-Way M (WHT)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	BLK	JX04	Ground B221 and B-55 to Side Turn Signal (RH)	1	BLK	JX003B	Ground B221 and B-55 to Splice Pack 506



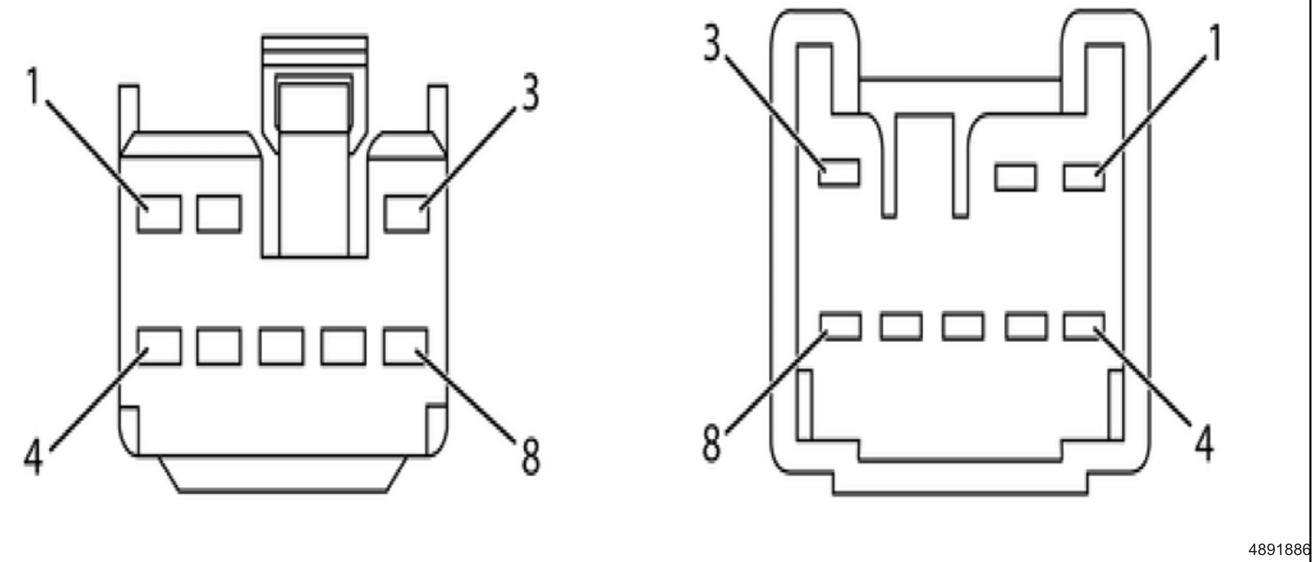
Connector Part Information	• 7323-8365 • 6-Way F (WHT)			Connector Part Information	• 7323-8365 • 6-Way M (WHT)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
2	GRN/BLK	JA10	Side Turn Signal (RH) Control Voltage from Flasher Module	2	GRN/WHT	JA011B	Side Turn Signal (RH) Control Voltage to Lamp
3	GRN/RED	BA41	Fuse F-27 Voltage (Headlamp Switch ON) to Side Marker Light (RH)	3	GRN/RED	BA041B	Fuse F-27 Voltage (Headlamp Switch ON) to J/B 1 (B-131 pin 8)
4	ORN	RA04	Speaker Output (+) to Speaker	4	GRY	RA006B	Speaker Output (+) to Radio
5	BLK	BX25	Front Cornering Light (RH) Ground Control to Lamp	5	BLK	BX025B	Front Cornering Light (RH) Ground Control to J/B 2 (B-144 pin 14)
6	BLK	RA03	Speaker Output (-) to Speaker	6	GRN	RA005B	Speaker Output (-) to Radio

Right Side of the I/P, at the A-Pillar (Trim Panel is Removed)



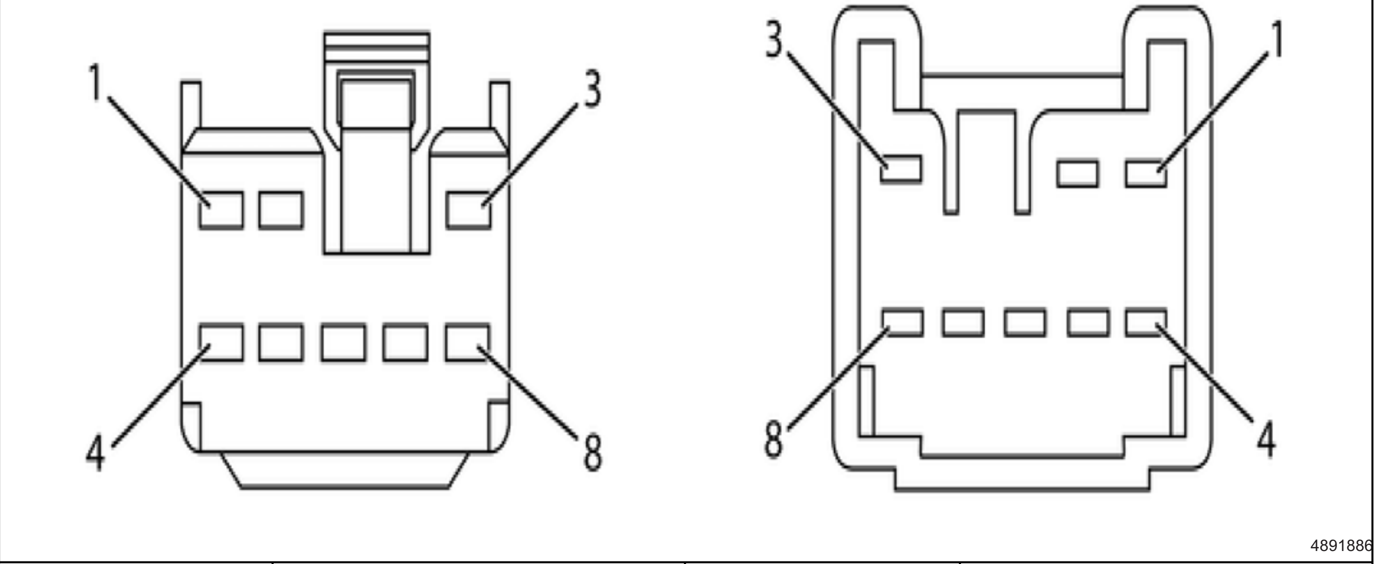
4891880

H-45 I/P Harness to the Roof Harness



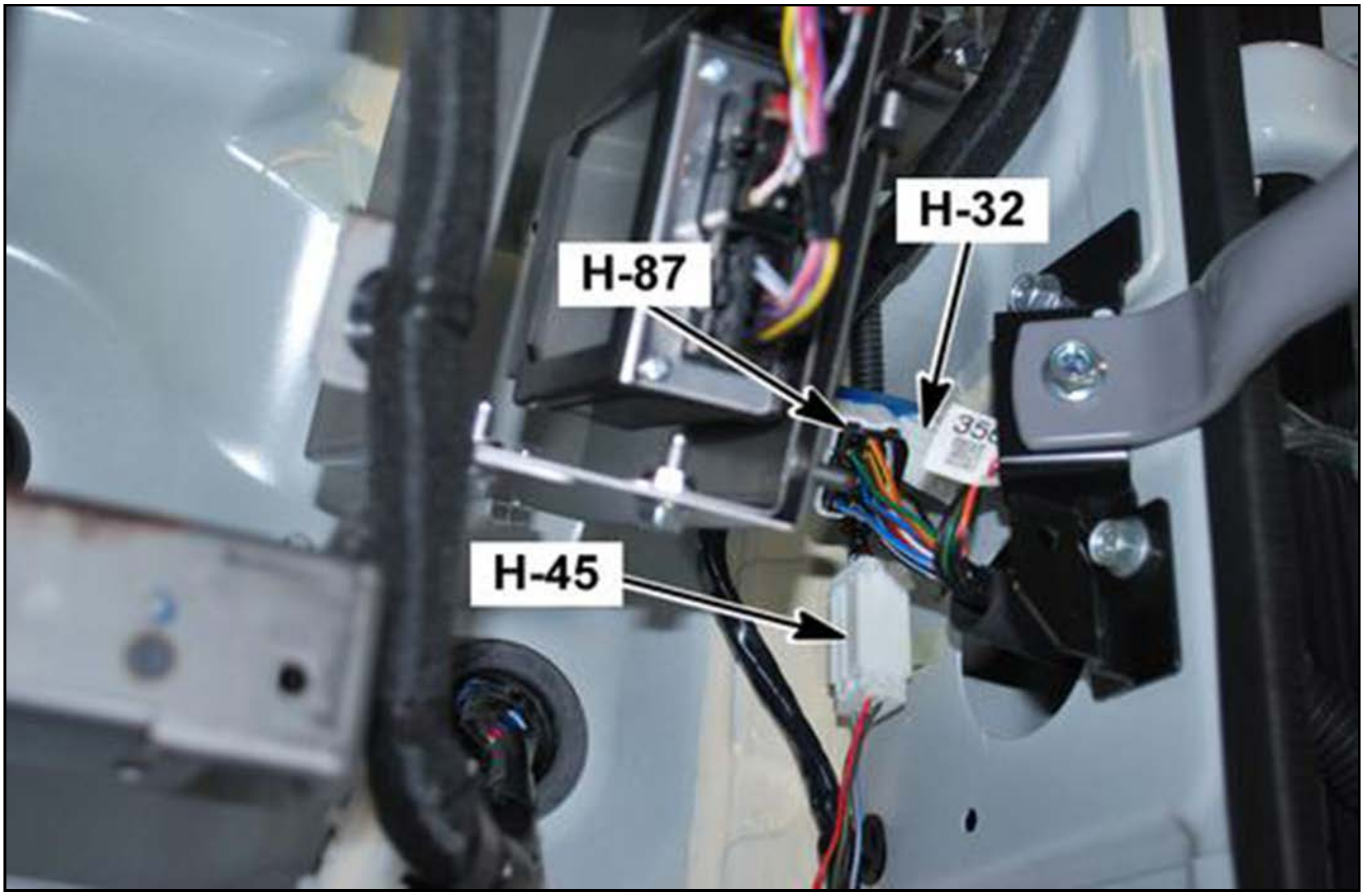
4891886

Connector Part Information		• 7323-8365 • 6-Way F (WHT)		Connector Part Information		• 7323-8365 • 6-Way M (WHT)	
Pin	Wire Color	Circuit No	Function	Pin	Wire Color	Circuit No	Function
1	—	—	Not Used	1	—	—	Not Used



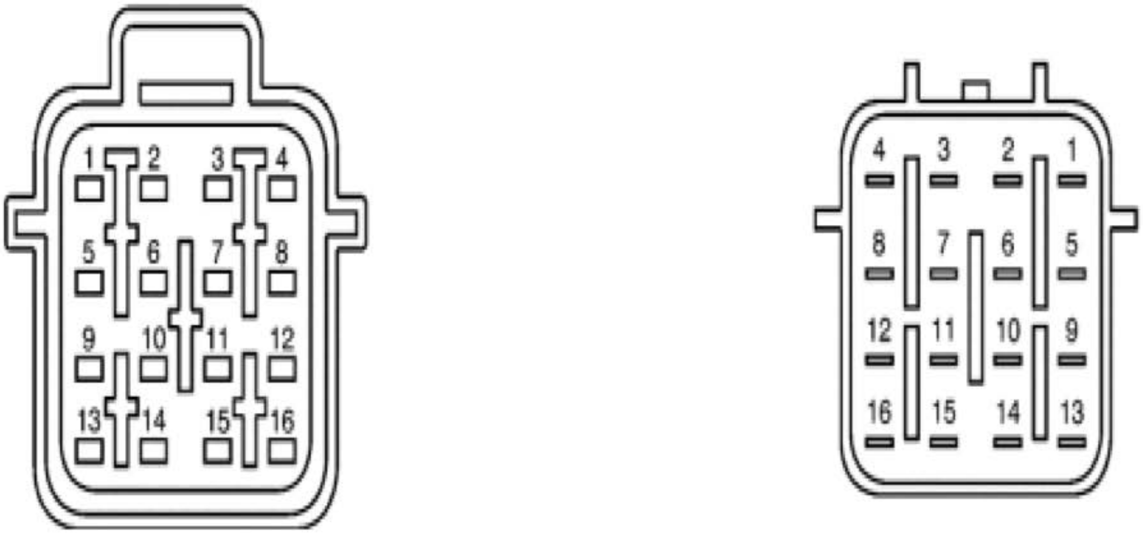
Connector Part Information	• 7323-8365 • 6-Way F (WHT)			Connector Part Information	• 7323-8365 • 6-Way M (WHT)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
2	RED	IA004B	Battery Voltage from Fuse F-3 from J/B 2 (B-144 pin 2)	2	RED	IA04	Battery Voltage from Fuse F-3 to Dome Lamp
3	GRY/BLU	IA140B	Door Switch Signal from Door Switches	3	GRY/BLU	IA14	Door Switch Signal to Dome Lamp
4	—	—	Not Used	4	—	—	Not Used
5	BLK	BX037B	Ground to J/B 2 (B-145 pin 15) (B-53 Ground)	5	BLK	BX37	Ground to L-22 Splice Pack
6–7	—	—	Not Used	6–7	—	—	Not Used
8	GRN/RED	BA057B	Fuse F-27 Voltage (Headlamp Switch ON) from Fuse/ Relay Center (Cab) (B-22 pin 9)	8	GRN/RED	BA57	Fuse F-27 Voltage (Headlamp Switch ON) to L-23 Splice Pack

Right Side of the I/P, at the A-Pillar (Trim Panel is Removed)



4891880

H-52 Front Chassis Harness to the Engine Harness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13

4891890

<table>
<tr><th colspan="2">Connector Part Information</th><th colspan="2">• X010418
• 16-Way F (BLK)</th><th colspan="2">Connector Part Information</th><th colspan="2">• 5BC-16M-8
• 16-Way M (BLK)</th></tr>
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<tr><td>1</td><td>BLU/YEL</td><td>MA002C</td><td>Engine Oil Pressure Switch Signal to IPC</td><td>1</td><td>BLU/YEL</td><td>MA02</td><td>Engine Oil Pressure Switch Signal from Switch</td></tr>
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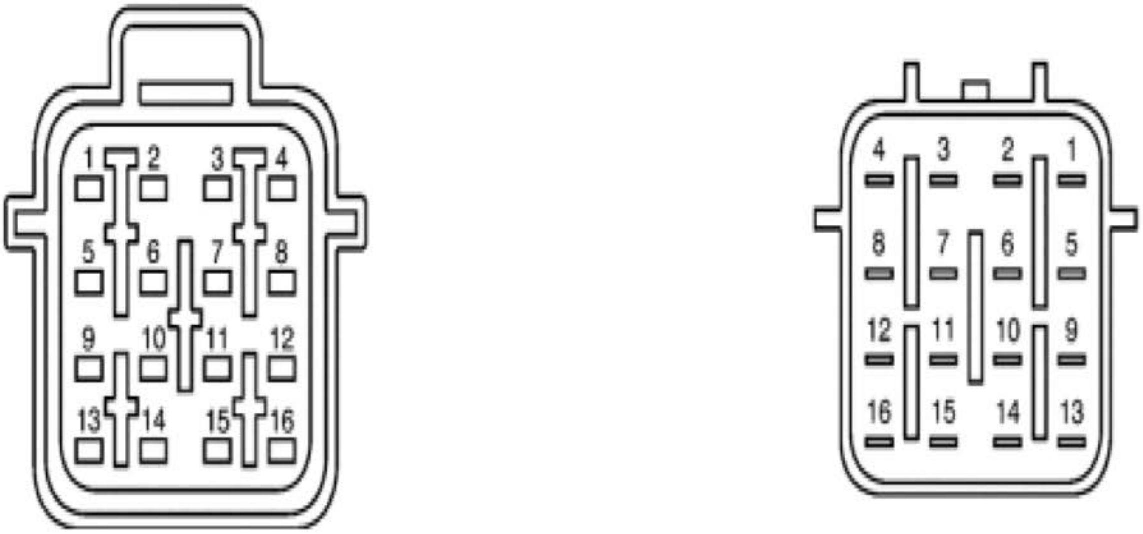
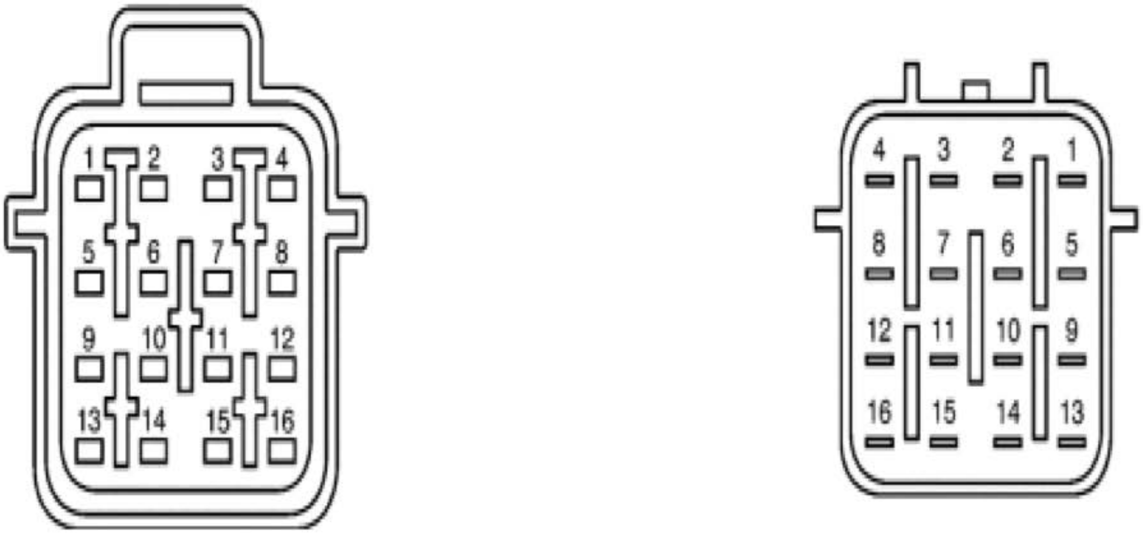


4891890

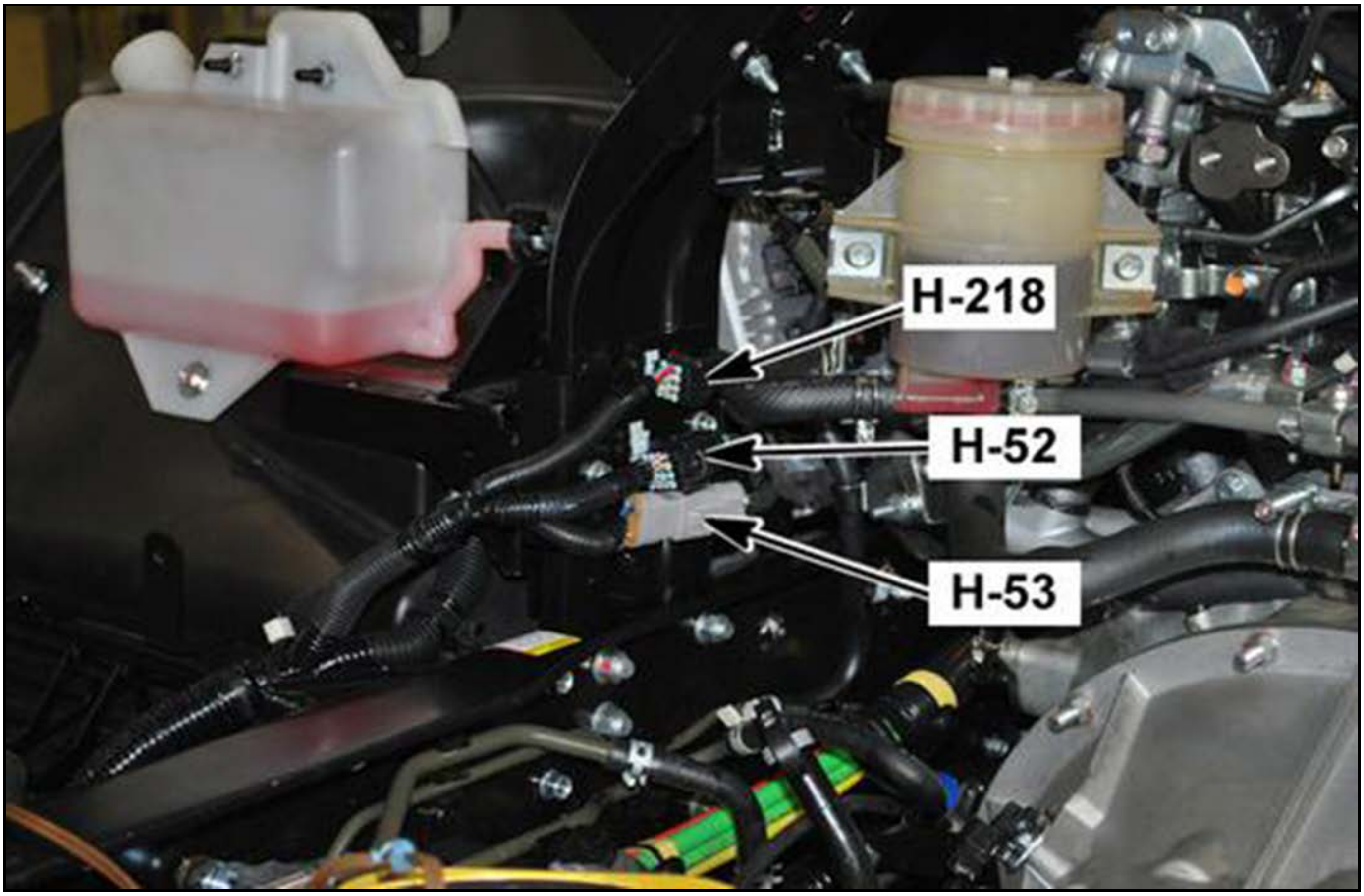
Connector Part Information		• X010418 • 16-Way F (BLK)		Connector Part Information		• 5BC-16M-8 • 16-Way M (BLK)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
2	GRN/WHT	MA051C	Oil Level Switch Signal to IPC	2	GRN/WHT	MA51	Oil Level Switch Signal from Switch
3	BRN/YEL	HA012C	A/C Compressor Clutch Voltage to A/C Pressure Switch	3	BRN/YEL	HA12	A/C Compressor Clutch Voltage to A/C Compressor
4	RED/WHT	IC002C	Switched Output Voltage from X-18 ECM Main Relay to Relay	4	GRN/BLK	IC02	Switched Output Voltage from X-18 ECM Main Relay to Glow Plug Control Module
5	BLU/WHT	TF017C	J1939 CAN 1 High Serial Data to ECM	5	BLU/WHT	TF17	J1939 CAN 1 High Serial Data to VNT Module and B-458 CAN 1 High Splice Pack
6	BLU	TF018C	J1939 CAN 1 Low Serial Data to ECM	6	BLU	TF18	J1939 CAN 1 Low Serial Data to VNT Module and B-458 CAN 1 Low Splice Pack
7	BLU/WHT	TF003C	J1939 CAN 1 High Serial Data to B- 458 Splice Pack	7	BLU/WHT	TF57	J1939 CAN 1 High Serial Data to VNT Module and ECM
8	BLU	TF004C	J1939 CAN 1 Low Serial Data to B- 459 Splice Pack	8	BLU	TF58	J1939 CAN 1 Low Serial Data to VNT Module and ECM
9	ORN	IC116C	Turbocharger Outlet Air Temperature Sensor	9	BRN	IC116	Turbocharger Outlet Air Temperature Sensor
10	BLU/ORN	IC115C	Turbocharger Outlet Air Temperature Sensor	10	PNK	IC115	Turbocharger Outlet Air Temperature Sensor
11	YEL/RED	IC120C	Intake Air Flow Valve 5 Volt Ref 4 Voltage to ECM	11	YEL/RED	IC120	Intake Air Flow Valve 5 Volt Ref 4 Voltage to Intake Air Flow Valve
12	VIO/WHT	IC121C	Intake Air Flow Valve Sensor Signal	12	VIO/WHT	IC121	Intake Air Flow Valve Sensor Signal



4891890

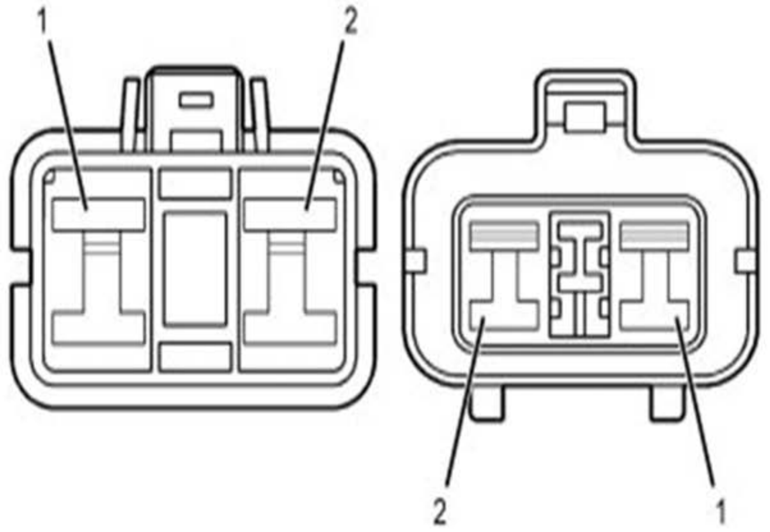
Connector Part Information		• X010418 • 16-Way F (BLK)		Connector Part Information		• 5BC-16M-8 • 16-Way M (BLK)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
13	BLK/ORN	IC203C	VNT Control Module from Fuse F-33 Fuse/Relay Center	13	GRN/BLK	IC203	VNT Control Module to VNT Control Module
14	BLU/BLK	IC122C	Intake Air Flow Valve Low Reference to ECM	14	BLU/BLK	IC122	Intake Air Flow Valve Low Reference to Intake Air Flow Valve
15	GRY/BLK	IC088C	Low Coolant Level Signal from Low Coolant Level Switch	15	GRY/BLK	IC88	Low Coolant Level Signal to Low Coolant Level Control Module
16	WHT/BLU	PA021C	Charge Indicator (Red) Control to J/B 1 (B-132 pin 5)	16	WHT/BLU	PA21	Charge Indicator (Red) Control from Generator

On the Left Side of the Rear Cab Support



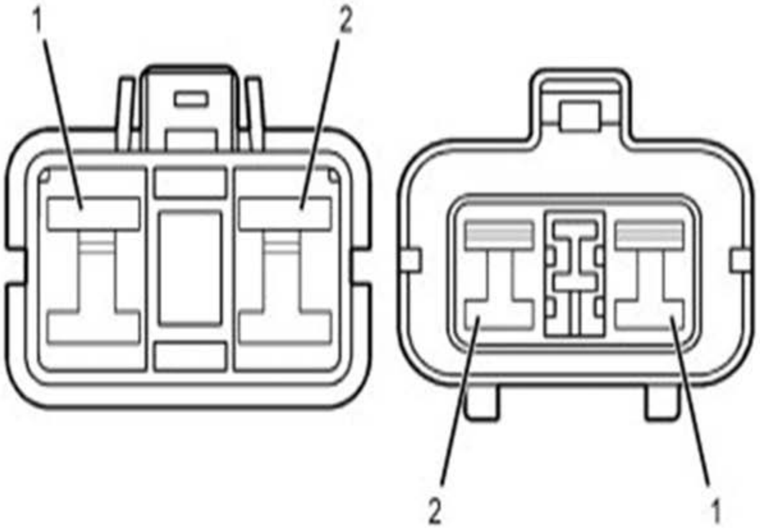
4891894

H-53 Front Chassis Harness to the Engine Harness



4891898

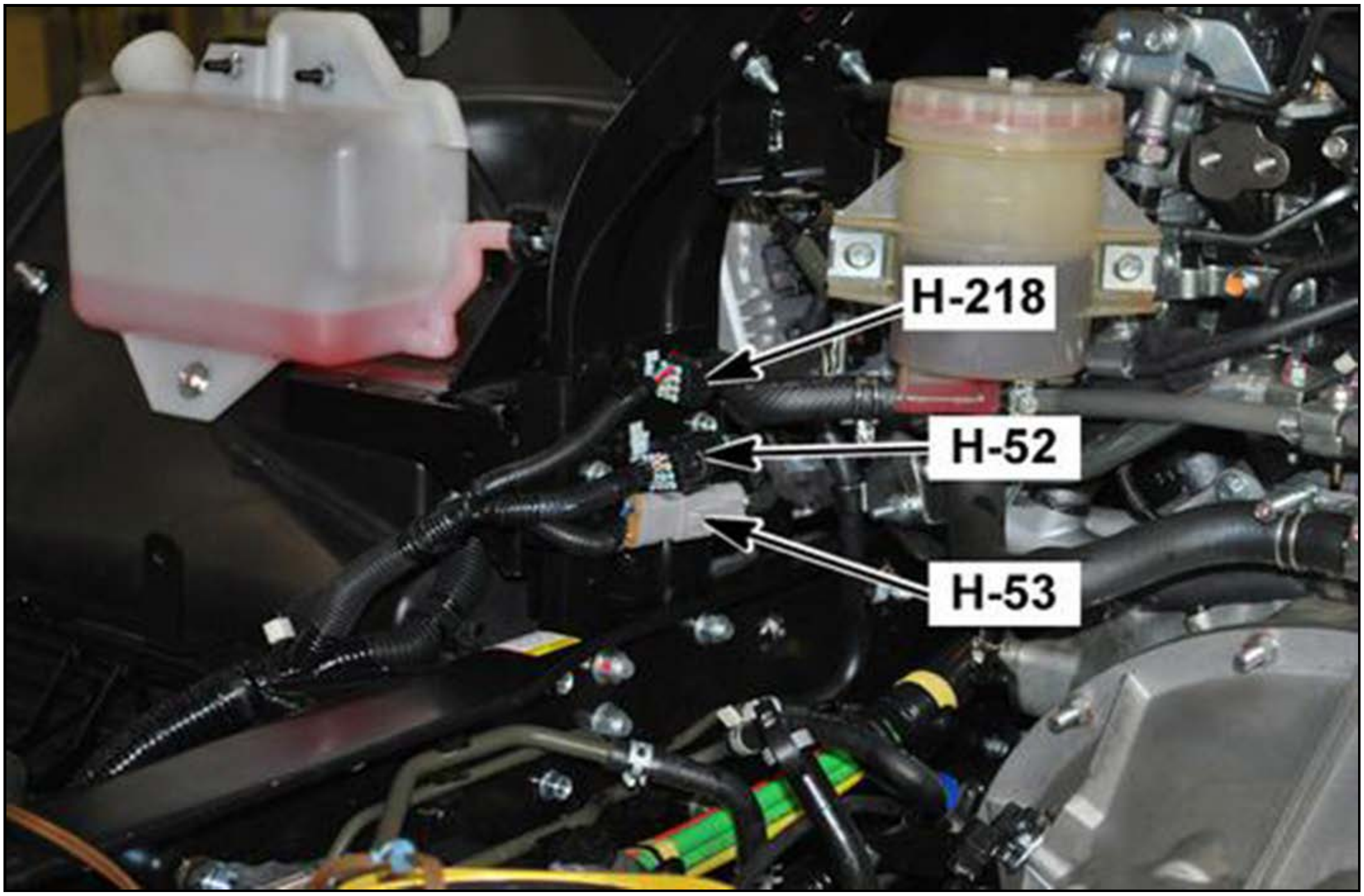
Connector Part Information		• 7323-4220-40 • 2-Way F (GRY)		Connector Part Information		• 7322-4220-40 • 2-Way M (LT GRY)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	WHT/BLK	HB01	Battery Voltage from Fuse FL-4 to Glow Plug Control Voltage	1	BLU/BLK	HB001C	Battery Voltage from Fuse FL-4 from Fuse/Relay Center



4891898

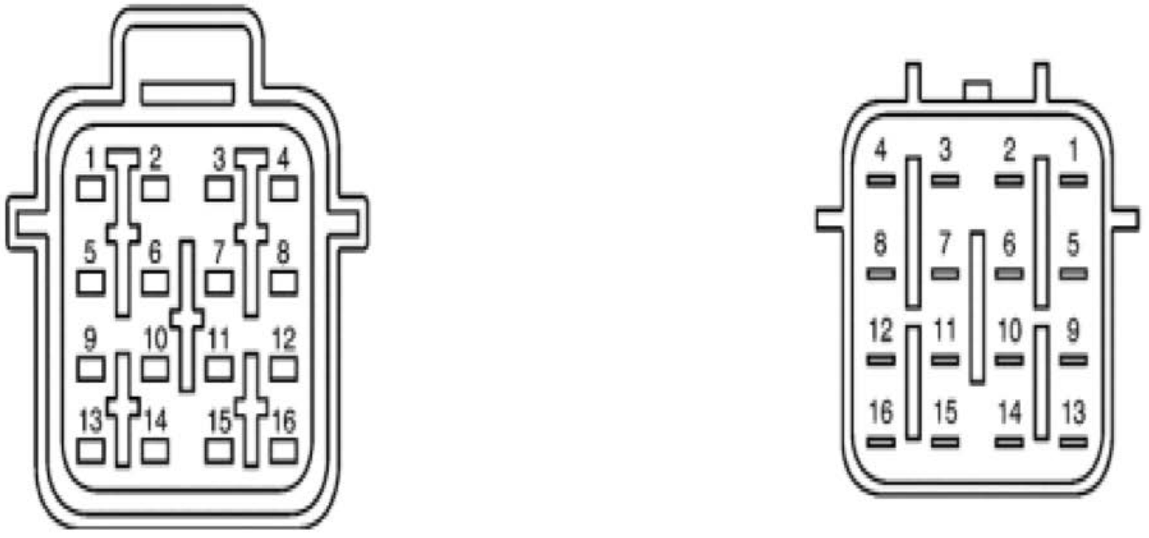
Connector Part Information		• 7323-4220-40 • 2-Way F (GRY)		Connector Part Information		• 7322-4220-40 • 2-Way M (LT GRY)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
2	BLK/WHT	LA02	Starter Solenoid Control to Starter Solenoid	2	BLK/WHT	LA002C	Starter Solenoid Control from Starter Relay (X- 17) Fuse/ Relay Center

On the Left Side of the Rear Cab Support

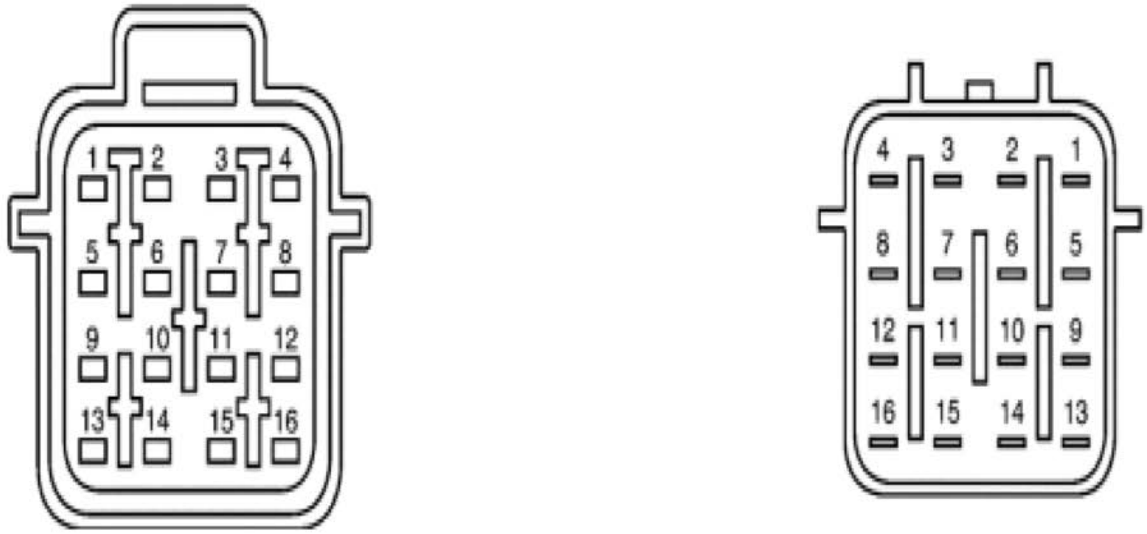


4891894

H-56 Front Chassis Harness to Rear Chassis Harness



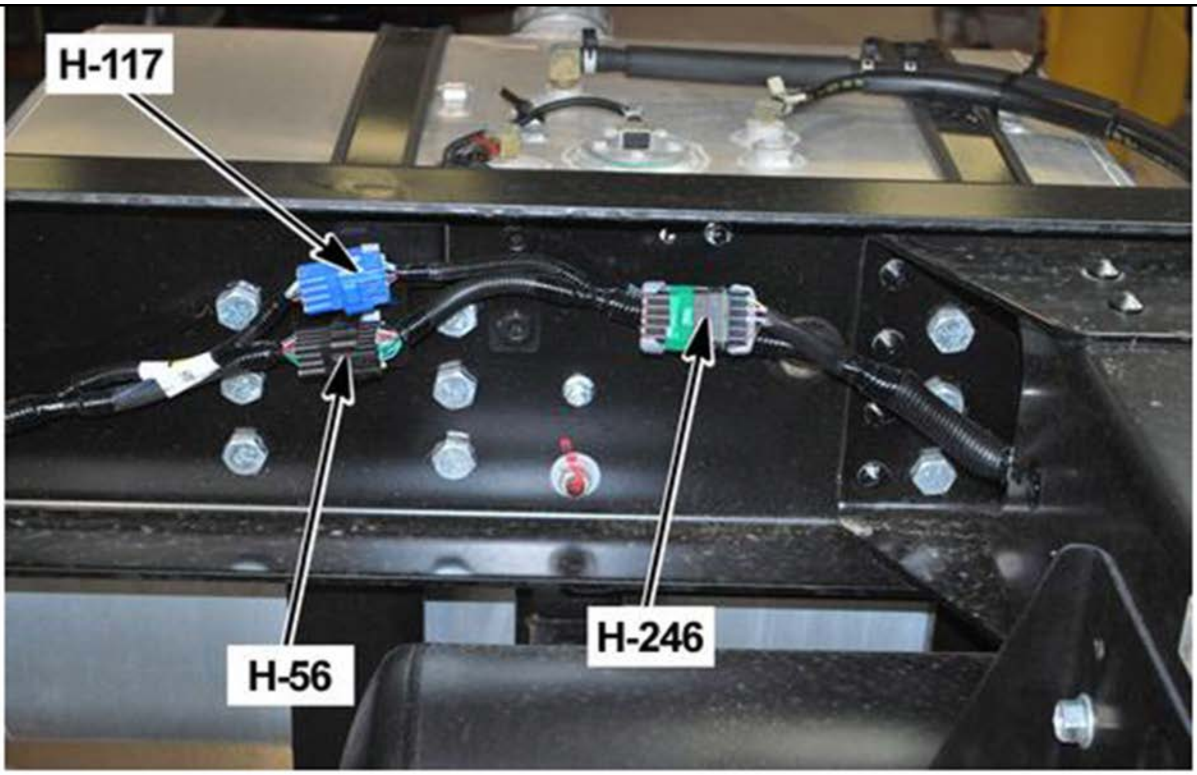
Connector Part Information	• X010418 • 16-Way F (BLK)			**Connector Part Information**	• X010423 • 16-Way M (BLK)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	GRN/RED	BA004C	Fuse F-27 Voltage (Headlamp Switch ON) from J/B 1 (B-132 pin 17)	1	GRN/RED	BA004D	Fuse F-27 Voltage (Headlamp Switch ON) to Rear Combination Lamps
2	LT GRN/BLK	BA048C	Switched Output Voltage from Marker Lamp Relay	2	LT GRN/BLK	BA048D	Switched Output Voltage to the Rear Manufacture Connector
3	GRN	CA021C	Switched Output Voltage from X-1 Stop Lamp Relay from J/B 2 (B-144 pin 11)	3	GRN	CA021D	Switched Output Voltage from X-1 Stop Lamp Relay to Rear Combination Lamps
4	—	—	Not Used	4	—	—	Not Used
5	RED	IA027C	Battery Voltage from Fuse F-36	5	RED	IA027D	Battery Voltage from Fuse F-36 to Rear Manufacture Connector
6	WHT/BLK	IA028C	Switched Output Voltage from Rear Dome Lamp Relay from Relay	6	WHT/BLK	IA028D	Switched Output Voltage from Rear Dome Lamp Relay to Rear Manufacture Connector
7	GRN/BLK	JA014C	Left Turn Signal Supply Voltage from Flasher Module	7	GRN/BLK	JA014D	Left Turn Signal Supply Voltage to Lamp
8	GRN/WHT	JA015C	Right Turn Signal Supply Voltage from Flasher Module	8	GRN/WHT	JA015D	Right Turn Signal Supply Voltage to Lamp
9	WHT/RED	BB116C	Left Rear Wheel Speed Sensor 5 Volt Reference to EBCM	9	WHT/RED	BB116D	Left Rear Wheel Speed Sensor 5 Volt Reference to Sensor
10	ORN/BLK	BB117C	Left Rear Wheel Speed Sensor Signal to EBCM	10	ORN/BLK	BB117D	Left Rear Wheel Speed Sensor Signal to Sensor



4891890

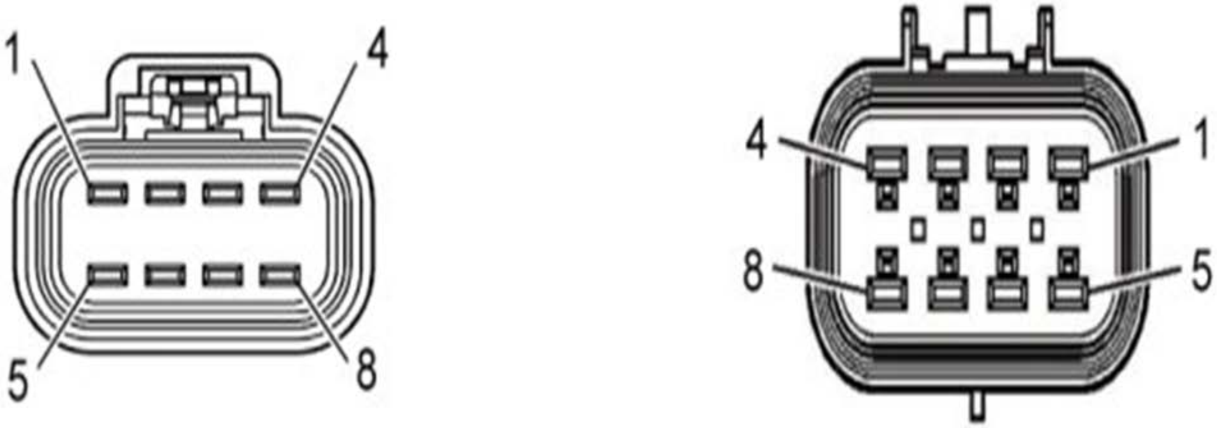
Connector Part Information	• X010418 • 16-Way F (BLK)			Connector Part Information	• X010423 • 16-Way M (BLK)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
11	GRN/WHT	BB121C	Right Rear Wheel Speed Sensor 5 Volt Reference to EBCM	11	GRN/WHT	BB121D	Right Rear Wheel Speed Sensor 5 Volt Reference to Sensor
12	GRN	BB122C	Right Rear Wheel Speed Sensor Reference Signal to EBCM	12	GRN	BB122D	Right Rear Wheel Speed Sensor Reference Signal to Sensor
13	BLK	ZZ030C	Ground to Splice 5 (J-9 and J-7 Ground)	13	BLK/BLU	ZZ030D	Ground to Splice 6 (J-9 and J-7 Ground)
14	—	—	Not Used	14	—	—	Not Used
15	RED/BLU	KA012C	Voltage from Fuse A-4 (In Reverse) from Fuse/Relay Center (Cab) (B- 250 pin 8)	15	RED/BLU	KA012D	Voltage from Fuse A-4 (In Reverse) to Rear Combination Lamps
16	—	—	Not Used	16	—	—	Not Used

Left Inner Frame Rail, Next to the Fuel Tank



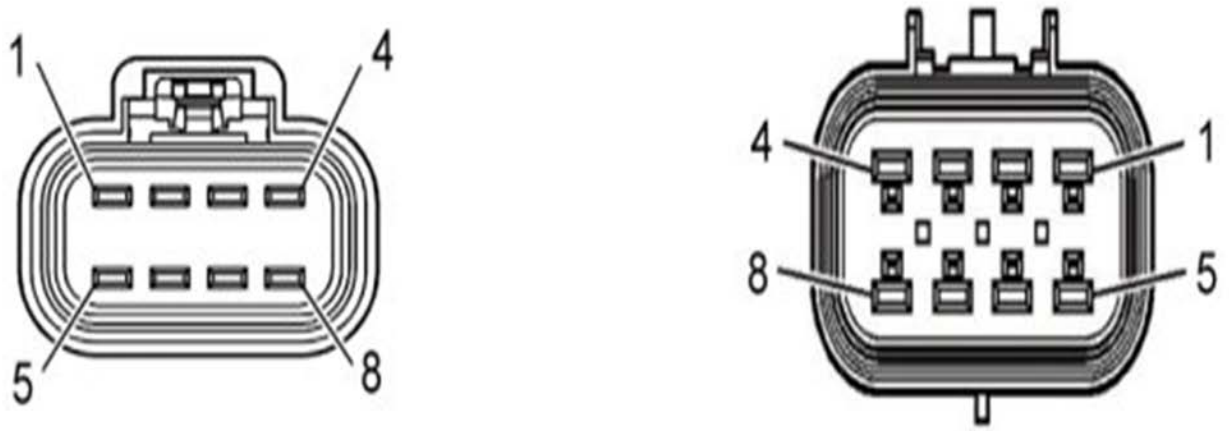
4891901

H-66 Rear Chassis Harness to Rear Lamp Harness



4891906

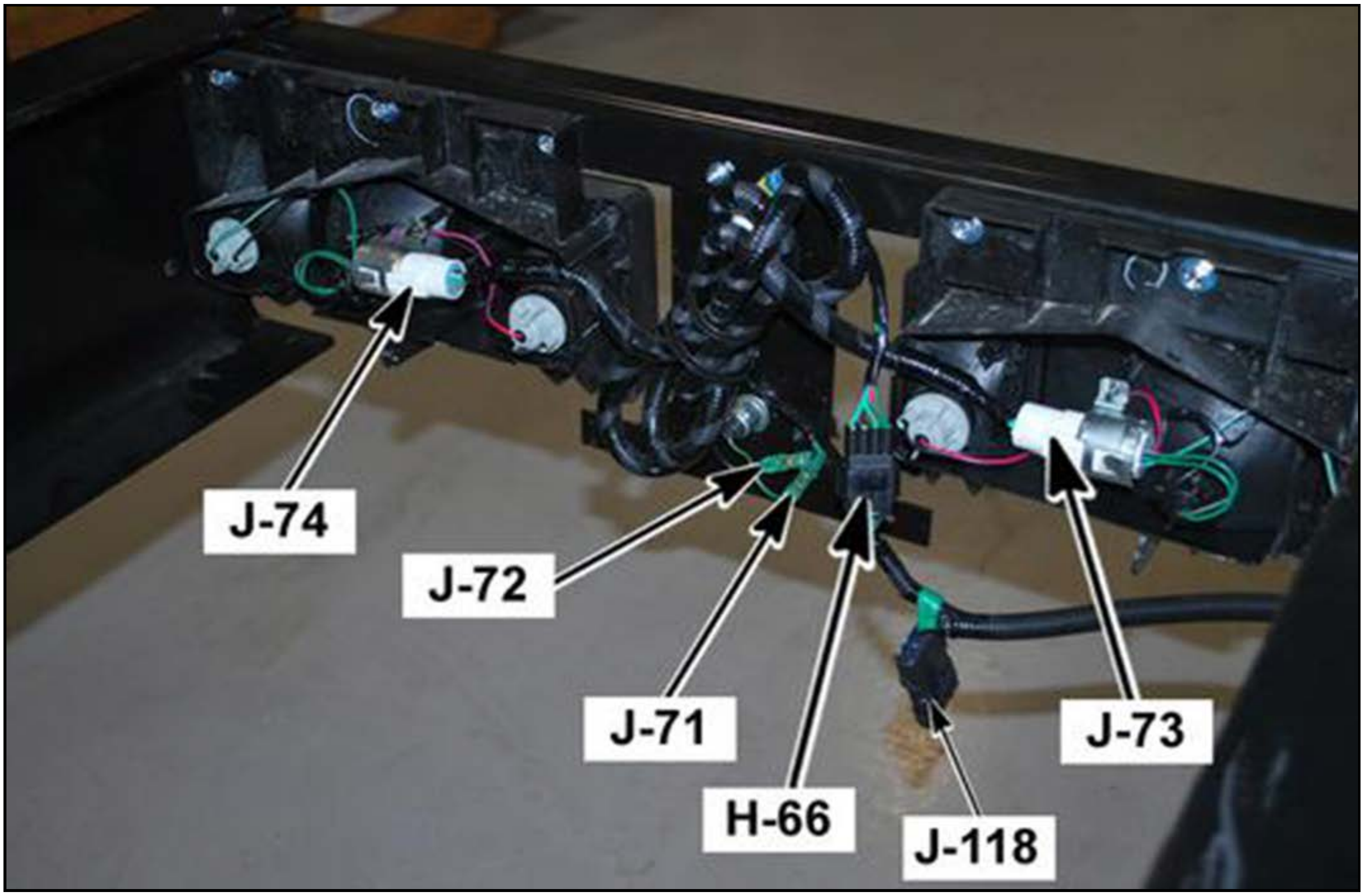
Connector Part Information		- X010369 - 8-Way F (BLK)		Connector Part Information		- X010371 - 8-Way M (BLK)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	GRN/BLK	JA014D	Left Turn Signal Supply Voltage from Flasher Module	1	GRN/BLK	JA14	Left Turn Signal Supply Voltage to Lamp



4891906

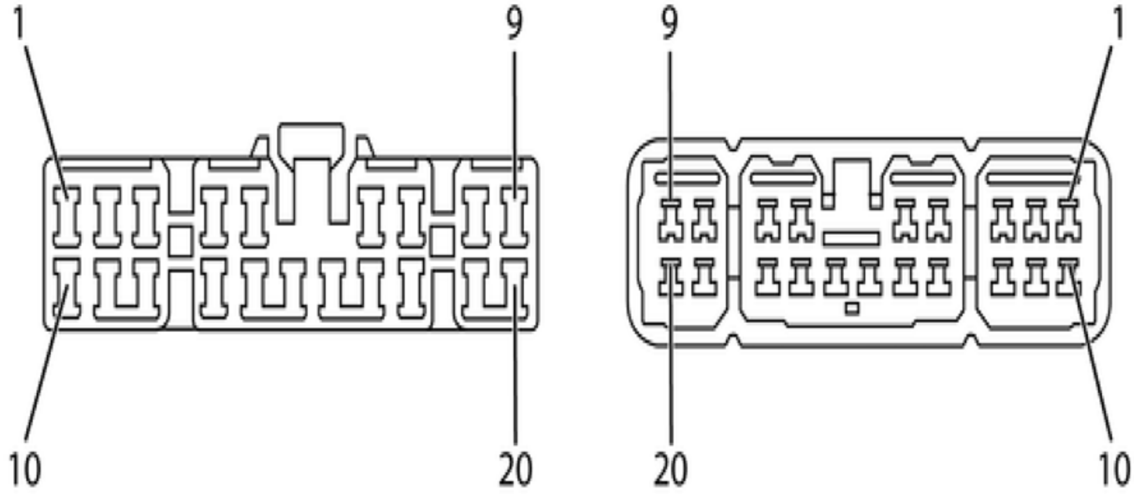
Connector Part Information	• X010369 • 8-Way F (BLK)			Connector Part Information	• X010371 • 8-Way M (BLK)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
2	GRN	CA021D	Switched Output Voltage from X-1 Stop Lamp Relay from J/B 2 (B-144 pin 11)	2	GRN	CA01	Switched Output Voltage from X-1 Stop Lamp Relay to Rear Combination Lamps
3–4	—	—	Not Used	3–4	—	—	Not Used
5	GRN/RED	BA004D	Fuse F-27 Voltage (Headlamp Switch ON) from J/B 1 (B-132 pin 17)	5	GRN/RED	BA04	Fuse F-27 Voltage (Headlamp Switch ON) to Rear Combination Lamps
6	RED/BLU	KA012D	Voltage from Fuse A-4 (In Reverse) Fuse/ Relay Center (Cab) (B-250 pin 8)	6	RED/BLU	KA12	Voltage from Fuse A-4 (In Reverse) to Rear Combination Lamps
7	BLK	BX001D	Ground to Splice 6 (J-9 and J-7 Ground)	7	BLK	BX01	Ground to Rear Combination Lights
8	GRN/WHT	JA015D	Right Turn Signal Supply Voltage from Flasher Module	8	GRN/WHT	JA15	Right Turn Signal Supply Voltage to Lamp

At the Rear of the Frame



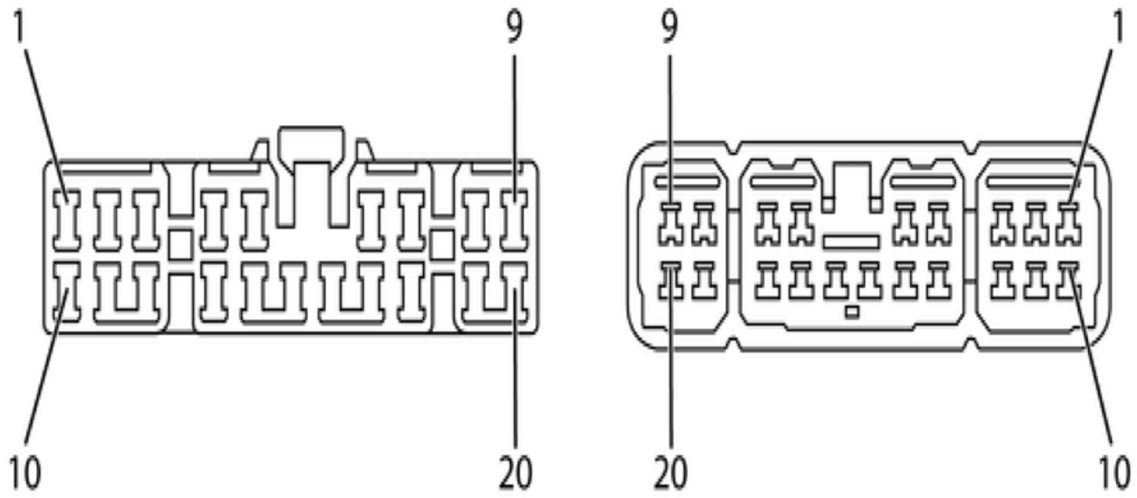
4891907

H-80 Front Chassis Harness to I/P Harness



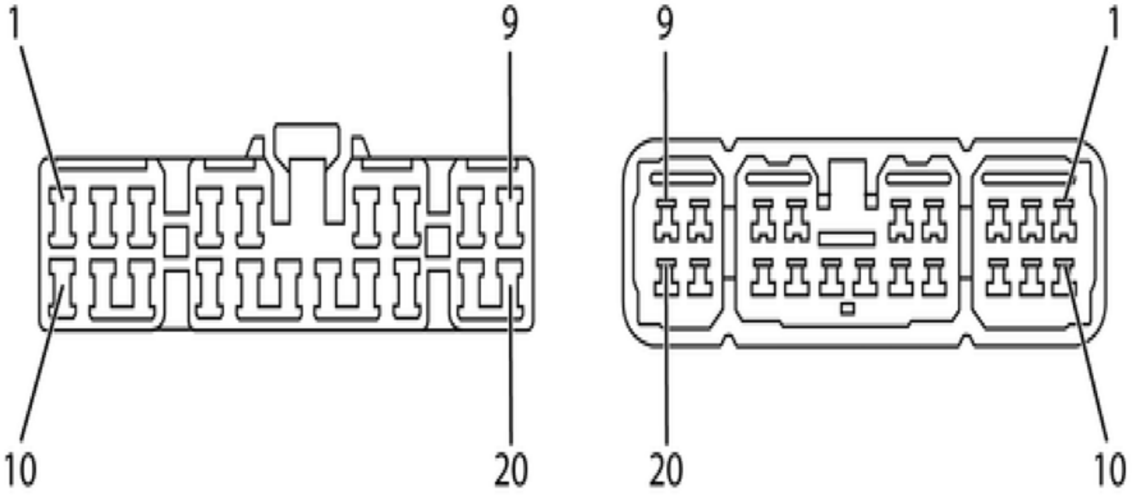
4891914

Connector Part Information		7383-1200-90 20-Way F (BLU)		Connector Part Information		7382-1200-90 20-Way M (BLU)	
Pin	Wire Color	Circuit No	Function	Pin	Wire Color	Circuit No	Function
1	BLU	TF004C	J1939 CAN 1 Low Serial Data to B- 458 Splice Pack	1	BLU	TF004B	J1939 CAN 1 Low Serial Data to VNT Module and ECM



4891914

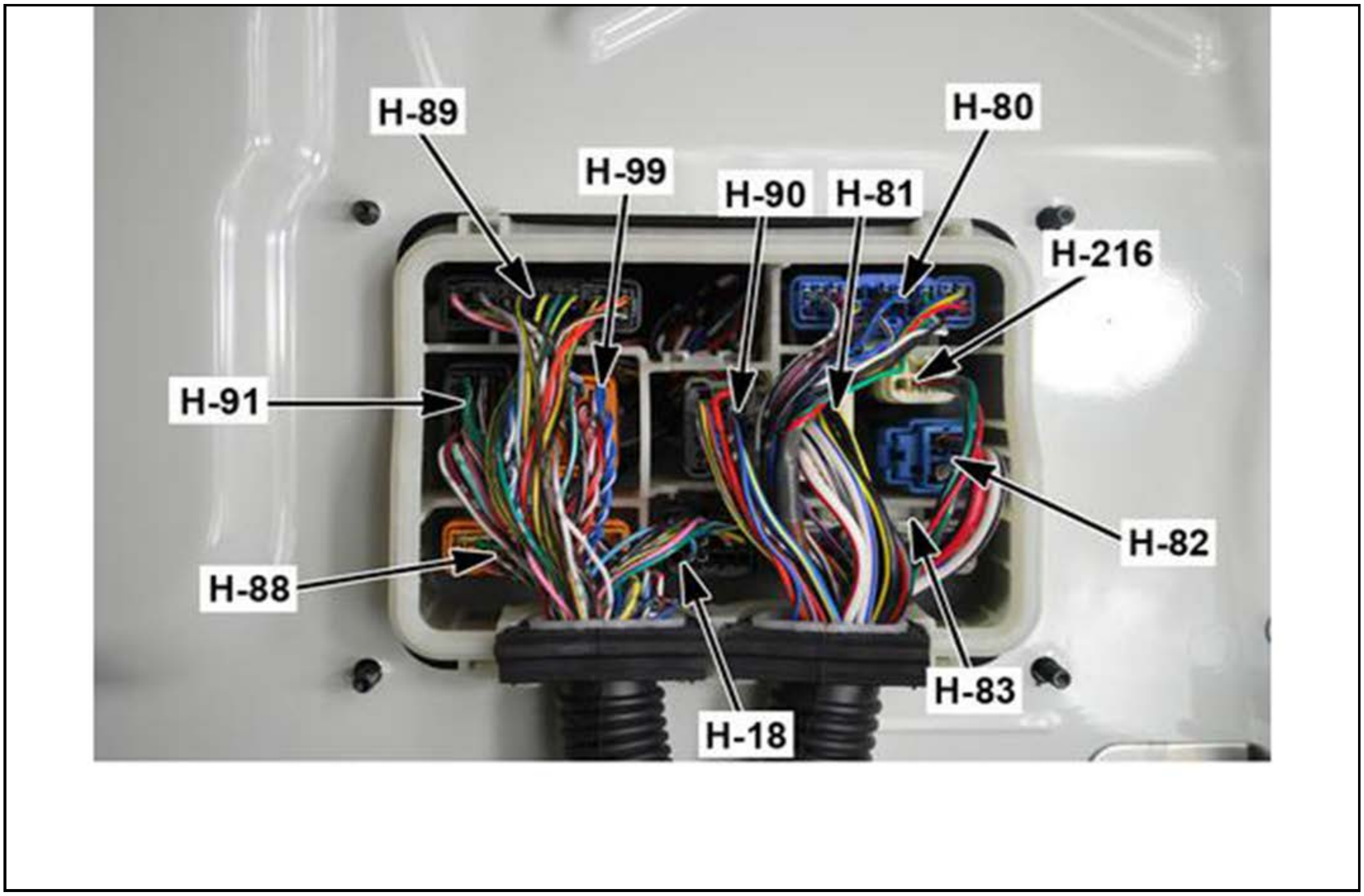
Connector Part Information		• 7383-1200-90 • 20-Way F (BLU)		Connector Part Information		• 7382-1200-90 • 20-Way M (BLU)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
2	BLU/WHT	TF003C	J1939 CAN 1 High Serial Data to B- 459 Splice Pack	2	BLU/WHT	TF003B	J1939 CAN 1 High Serial Data to VNT Module and ECM
3	PNK/BLU	IC176C	Cruise Resume/Set Switch Signal to Engine Control module (ECM)	3	PNK/BLU	IC176B	Cruise Resume/Set Switch Signal from Switch
4–6	—	—	Not Used	4–6	—	—	Not Used
7	WHT	IC033C	APP 1, 5 Volt Reference to ECM	7	WHT	IC033B	APP 1, 5 Volt Reference from APP
8	BLK	IC032C	APP 1 Low Reference to ECM	8	BLK	IC032B	APP 1 Low Reference from APP
9	RED	IC023C	APP 1 Sensor 1 Signal to ECM	9	RED	IC023B	APP 1 Sensor 1 Signal from APP
10	WHT/GRN	BB118C	Right Rear Pressure Modulator Valve Hold Control to Modulator	10	WHT/GRN	BB118B	Right Rear Pressure Modulator Valve Hold Control to EBCM
11	BLK/ORN	BB119C	Right Rear Pressure Modulator Low Reference to Modulator	11	BLK/ORN	BB119B	Right Rear Pressure Modulator Low Reference to EBCM
12	RED/GRN	BB120C	Left Rear Pressure Modulator Valve Release Control to Modulator	12	RED/GRN	BB120B	Left Rear Pressure Modulator Valve Release Control to EBCM
13–14	—	—	Not Used	13–14	—	—	Not Used
15	BLK	MX004C	Fuel Tank Unit Ground from Fuel Tank Unit	15	BLK	MX004B	Fuel Tank Unit Ground to J/B 2 (B-141 pin 6)
16	BLU	HA066C	Switched Output Voltage from X-20 Relay from Relay	16	BLU	HA066B	Switched Output Voltage from X-20 Compressor Clutch Relay to A/C Pressure Switch
17	SHIELD	IZ034C	APP Low Reference Shield	17	BLU/RED	IZ034B	APP Low Reference Shield from B-267 Splice Pack



4891914

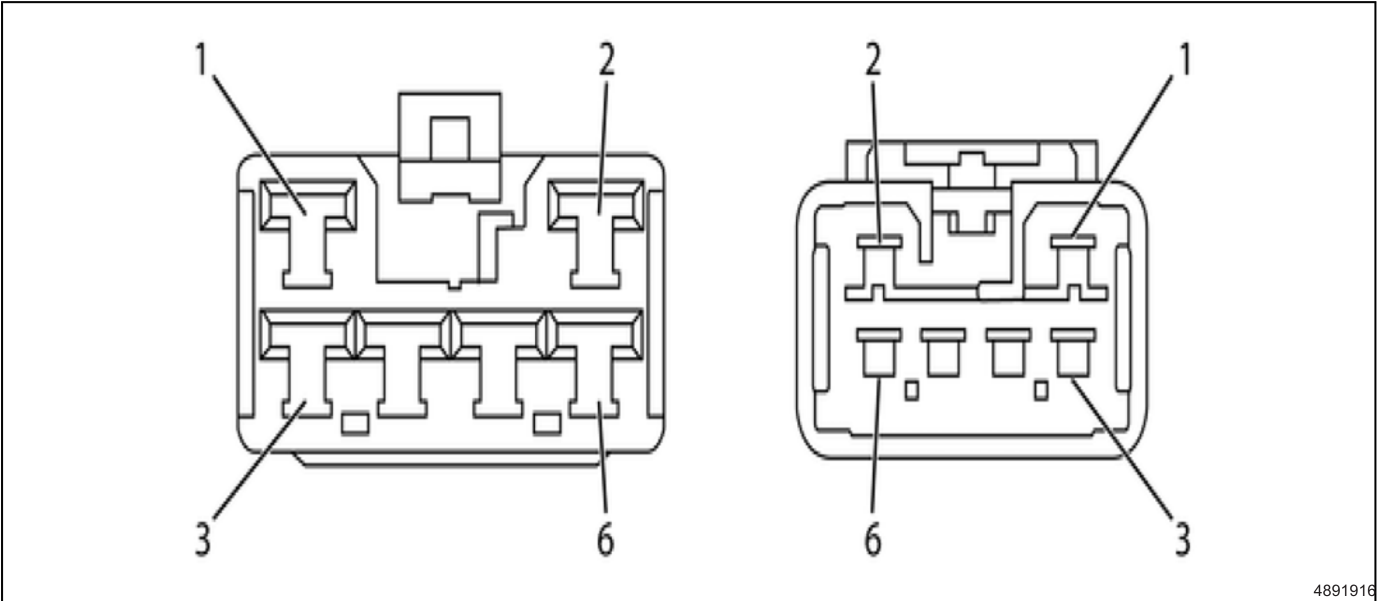
Connector Part Information		• 7383-1200-90 • 20-Way F (BLU)		Connector Part Information		• 7382-1200-90 • 20-Way M (BLU)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
18	GRN	IC004C	APP 2 5 Volt Reference to ECM	18	GRN	IC004B	APP 2 5 Volt Reference from APP
19	BLU	IC006C	APP 2 Low Reference to ECM	19	BLU	IC006B	APP 2 Low Reference from APP
20	YEL	IC005C	APP 1 Sensor 1 Signal to ECM	20	YEL	IC005B	APP 1 Sensor 1 Signal from APP

Front of the Cab, Behind the Washer Fluid Reservoir



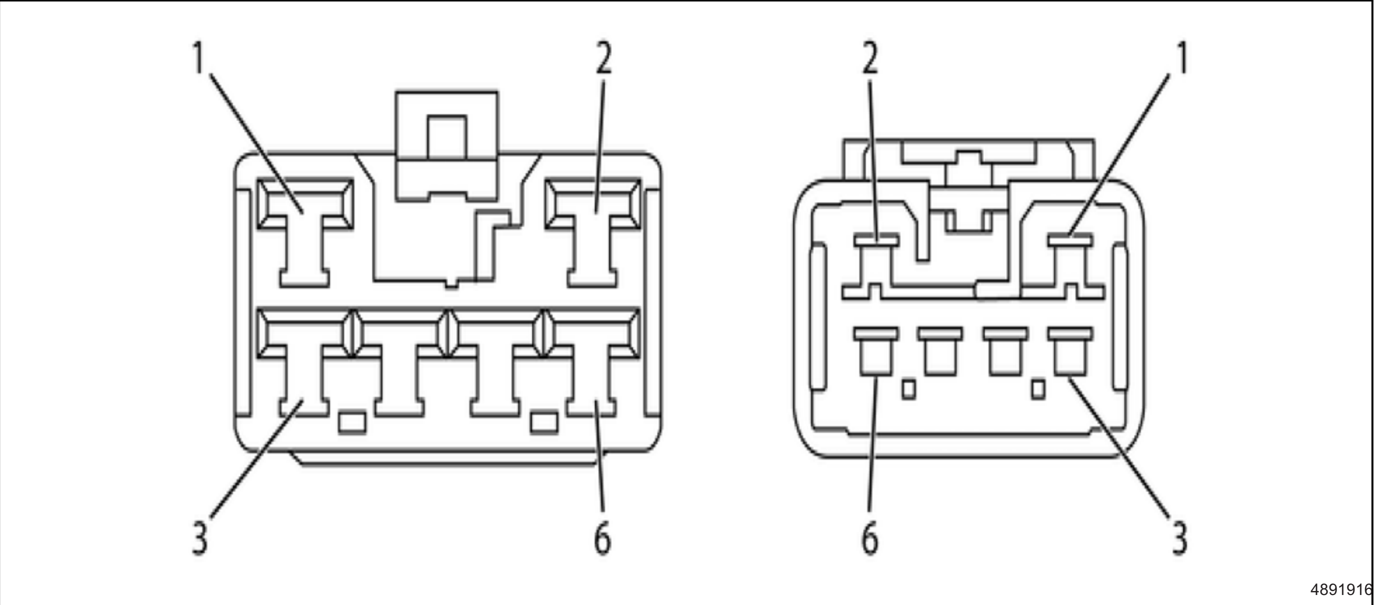
4891871

H-81 Front Chassis Harness to I/P Harness



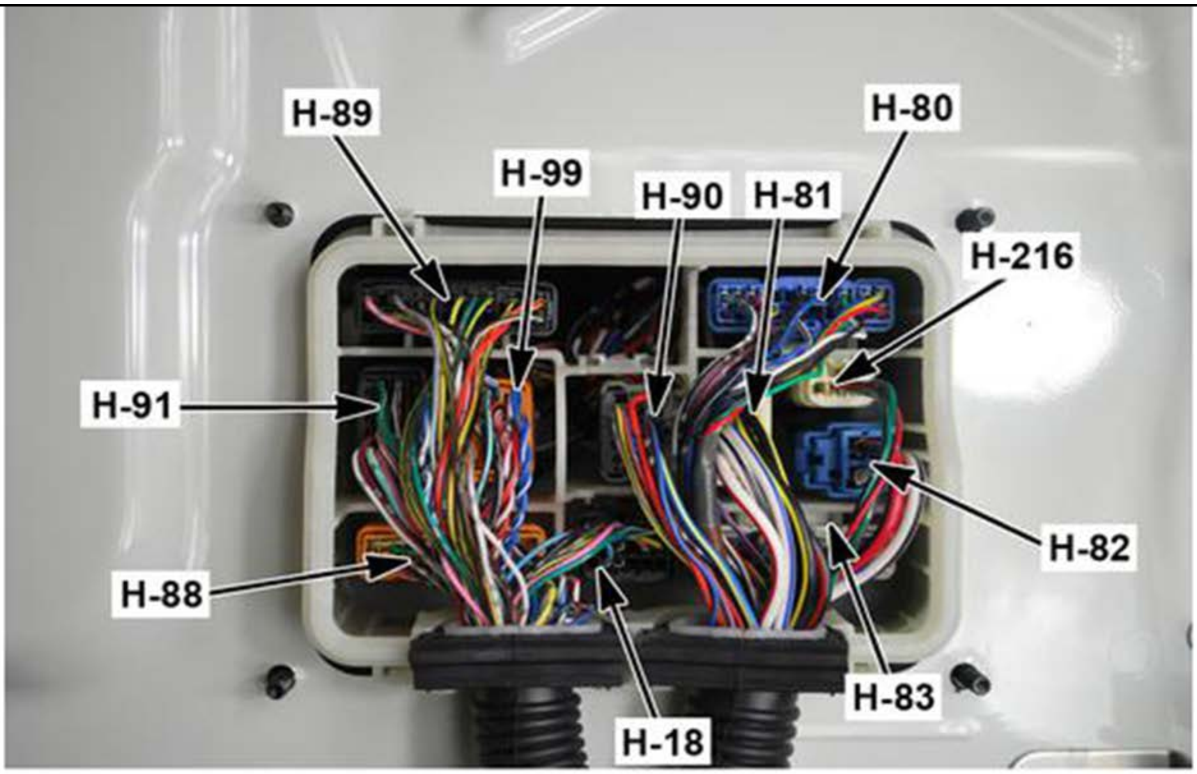
4891916

Connector Part Information	• 7383-1065 • 6-Way F (WHT)			Connector Part Information	• 7383-1065 • 6-Way M (WHT)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	BLK/YEL	PA062C	Battery Voltage from Fuse FL-5 Fuse/ Relay Center	1	BLK/YEL	PA062B	Battery Voltage from Fuse FL-5 to Splice 27



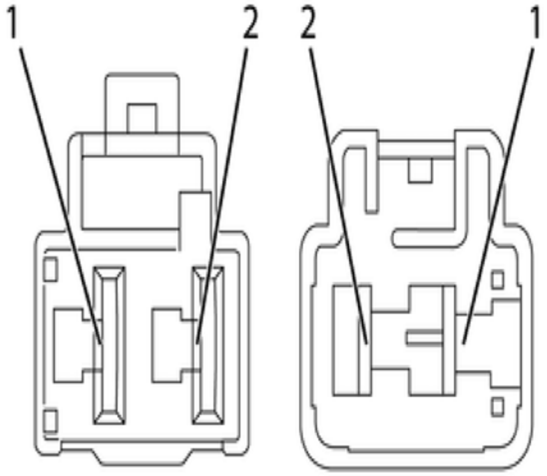
Connector Part Information		• 7383-1065 • 6-Way F (WHT)		**Connector Part Information**		• 7383-1065 • 6-Way M (WHT)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
2	WHT/BLK	PA011C	Battery Voltage from Fuse FL-10 from Fuse/Relay Center	2	WHT/BLK	PA011B	Battery Voltage from Fuse FL-10 to Fuse/ Relay Center (Cab) (B-26 pin 2)
3	BLK/YEL	PA002C	Battery Voltage from Fuse FL-12 from Fuse/Relay Center	3	BLK/YEL	PA002B	Battery Voltage from Fuse FL-12 to Cigar Lighter Relay and Ignition Switch
4	BLK/RED	PA004C	Battery Voltage from Fuse FL-6 from Fuse/Relay Center	4	BLK/RED	PA004B	Battery Voltage from Fuse FL-6 to Splice 26
5	WHT/BLU	BB101C	Battery Voltage from Fuse FL-11 from Fuse/Relay Center	5	WHT/BLU	BB101B	Battery Voltage from FL-11 Fuse to EBCM
6	WHT/RED	PA005C	Battery Voltage from Fuse FL-8 from Fuse/Relay Center	6	WHT/RED	PA005B	Battery Voltage from Fuse FL-8 to B-378 Splice Pack

Front of the Cab, Behind the Washer Fluid Reservoir



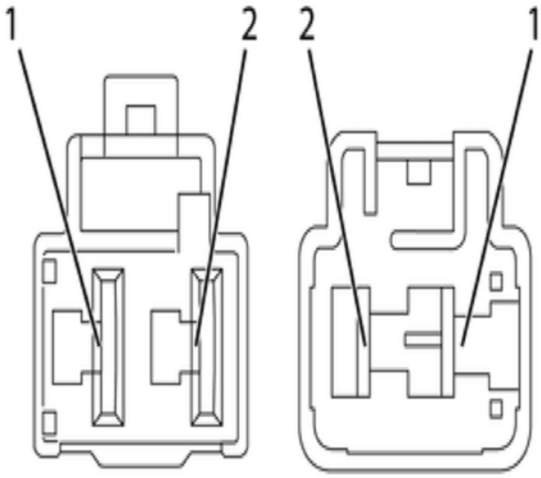
4891871

H-82 Front Chassis Harness to I/P Harness



4891919

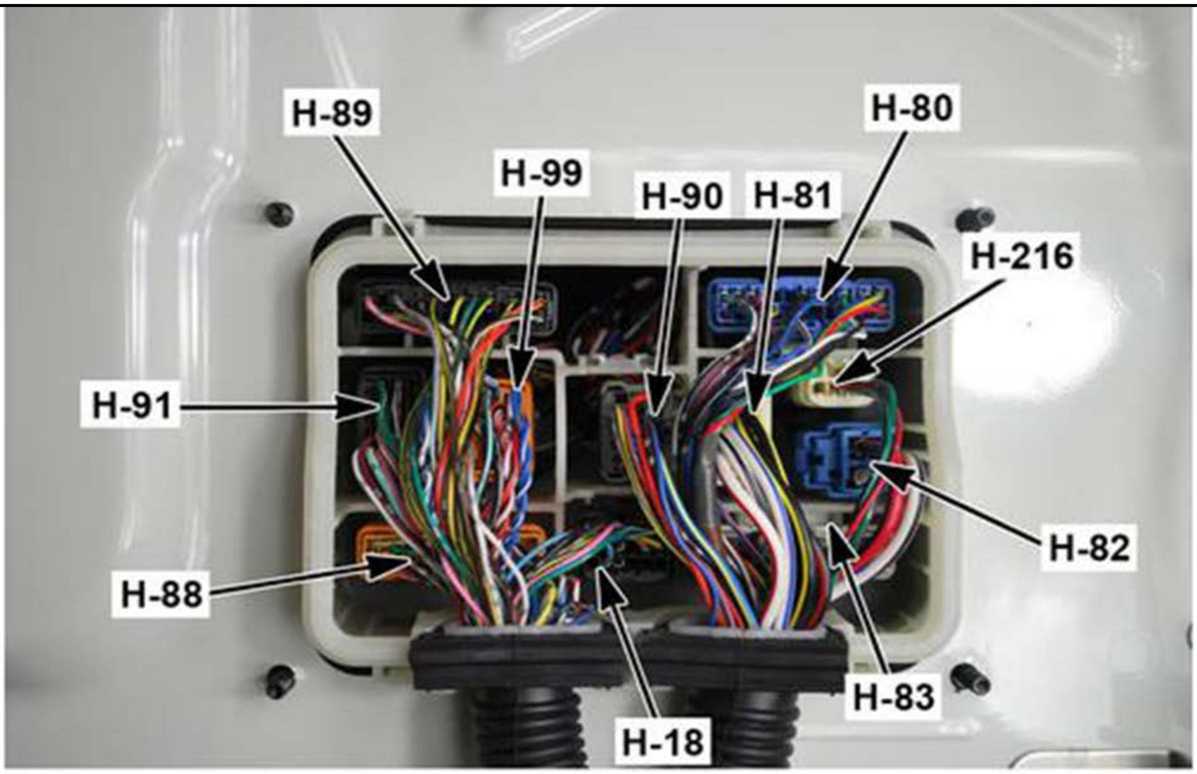
Connector Part Information		- 7383-3020-90 - 2-Way F (BLU)		**Connector Part Information**		- 7383-3020-90 - 2-Way M (BLU)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	RED/BLK	PA010C	Battery Voltage from Fuse FL-3 from Fuse/Relay Center	1	RED/BLK	PA010B	Battery Voltage from Fuse FL-3 to Power ACC Relay (Switch)



4891919

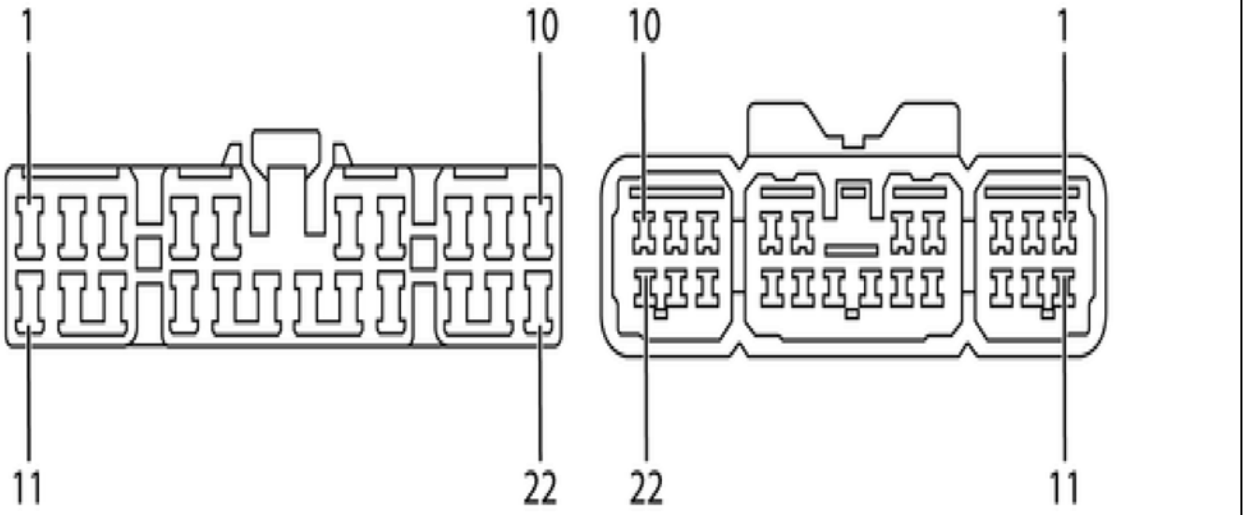
Connector Part Information		• 7383-3020-90 • 2-Way F (BLU)		Connector Part Information		• 7383-3020-90 • 2-Way M (BLU)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
2	WHT/BLK	PA006C	Battery Voltage from Fuse FL-7	2	WHT/BLK	PA006B	Battery Voltage from Fuse FL-7 to Blower Relay

Front of the Cab, Behind the Washer Fluid Reservoir

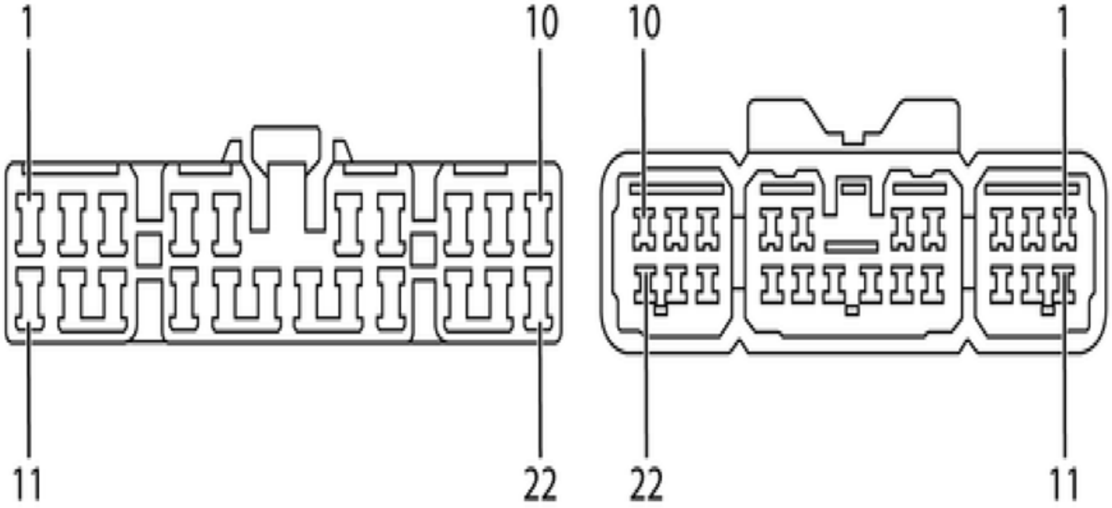


4891871

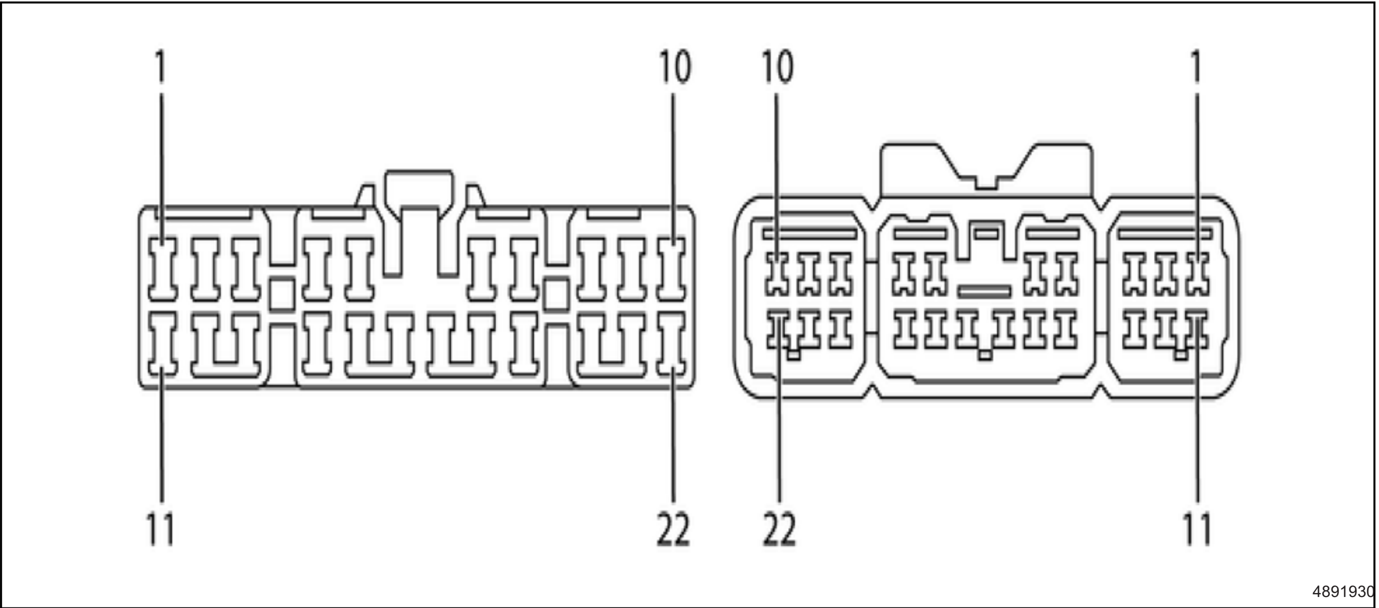
H-83 Front Chassis Harness to I/P Harness



Connector Part Information	• 7383-1222 • 22-Way F (WHT)			Connector Part Information	• 7383-1222 • 22-Way M (WHT)		
Pin	Wire Color	Circuit No	Function	Pin	Wire Color	Circuit No	Function
1	BLK	BY011C	Ground to Splice 2 (J-11 and J-8 Ground)	1	BLK	BY011B	Ground from Splice 2 (J-11 and J-8 Ground) to EBCM
2	BLK	BY012C	Ground to Splice 2 (J-11 and J-8 Ground)	2	BLK	BY012B	Ground from Splice 2 (J-11 and J-8 Ground) to EBCM
3–4	—	—	Not Used	3–4	—	—	Not Used
5	GRN/WHT	IC190C	Stop Lamp Relay (Coil Control) to Stop Lamp Switch 2	5	GRN/WHT	IC190B	Stop Lamp Relay (Coil Control) from Stop Lamp Relay
6	GRY/BLU	IC158C	Cruise Main Switch Signal to Engine Control module (ECM)	6	GRY/BLU	IC158B	Cruise Main Switch Signal from Switch
7	GRN	CA021C	Switched Output Voltage from X-1 Stop Lamp Relay to Rear Combination Lamps	7	GRN	CA001B	Switched Output Voltage from X-1 Stop Lamp Relay to J/B 2 (B-144 pin 11)
8	BLK/ORN	IC001C	Ignition Voltage from Fuse F-20 to Engine Control Module (ECM) and DEF Module	8	BLK/ORN	IC001B	Ignition Voltage from Fuse F-20 from J/B 1 (B-131 pin 11)
9	WHT/BLU	PA021C	Charge Indicator (Red) Control to J/B 1 (B-132 pin 5)	9	WHT/BLU	PA021B	Charge Indicator (Red) Control from Generator
10	GRY	IC177C	Cruise Set/Coast Switch Signal to Engine Control Module (ECM)	10	GRY	IC177B	Cruise Set/Coast Switch Signal from Switch
11	GRN/WHT	JA015C	Left Turn Signal Supply Voltage to Lamp	11	GRN/WHT	JA015B	Left Turn Signal Supply Voltage from Flasher Module

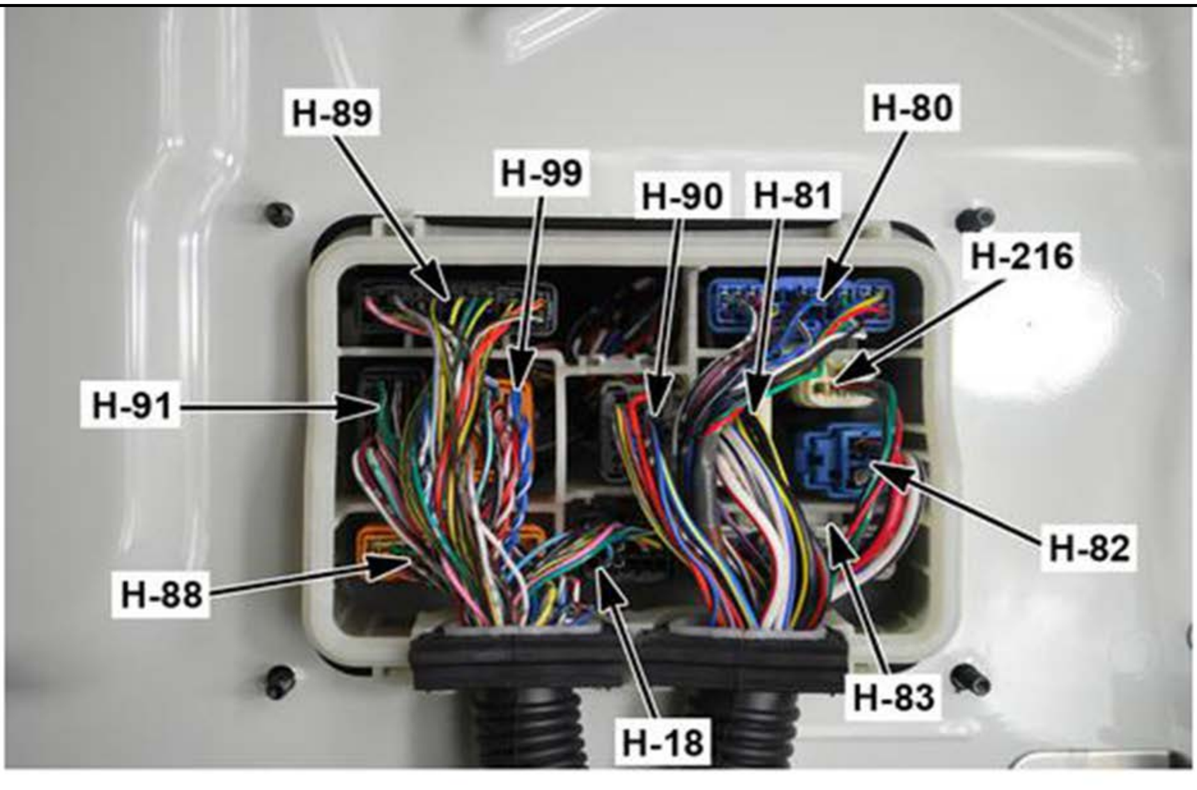


Connector Part Information		• 7383-1222 • 22-Way F (WHT)		Connector Part Information		• 7383-1222 • 22-Way M (WHT)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
12	BLK/WHT	LA013C	Ignition Voltage from Fuse F-13 to X-17 Starter Relay	12	BLK/WHT	LA003B	Ignition Voltage from Fuse F-13 from Fuse/Relay Center (Cab) (B-22 pin 17)
13	GRN/WHT	BB121C	Right Rear Wheel Speed Sensor 5 Volt Reference to Sensor	13	GRN/WHT	BB121B	Right Rear Wheel Speed Sensor 5 Volt Reference to EBCM
14	GRN	BB122C	Right Rear Wheel Speed Sensor Reference Signal to Sensor	14	GRN	BB122B	Right Rear Wheel Speed Sensor Reference Signal to EBCM
15	GRY/BLU	IC083C	Low Coolant Level Indicator Control to ECM	15	GRY/BLU	IC083B	Low Coolant Level Indicator Control to Radiator Level Control Module
16	GRY/BLK	IC088C	Low Coolant Level Switch Signal from Switch	16	GRY/BLU	IC088B	Low Coolant Level Switch Signal to Radiator Level Control Module
17	GRN/RED	BA004C	Fuse F-27 Voltage (Headlamp Switch ON) to Rear Combination Lamps and Marker Lamp Relay X-26	17	GRN/RED	BA004B	Fuse F-27 Voltage (Headlamp Switch ON) from J/B 1 (B-132 pin 17)
18	LT GRN/RED	IC044C	Exhaust Brake Switch Signal to ECM	18	LT GRN/RED	IC044B	Exhaust Brake Switch Signal from Switch
19	YEL	IA019C	X-22 Rear Dome Lamp Relay Coil Control from Relay	19	YEL	IA019B	X-22 Rear Dome Lamp Relay Coil Control to J/B 2 (B-146 14)
20	RED	IA020C	Battery Voltage from Fuse F-36	20	RED	IA020B	Battery Voltage from Fuse F-36 to Rear Dome Lamp Switch
21	BLU/WHT	IC140C	DPF Regeneration Switch Signal to ECM	21	BLU/WHT	IC140B	DPF Regeneration Switch Signal to Switch


1
10
11
22
10
1
22
11
4891930

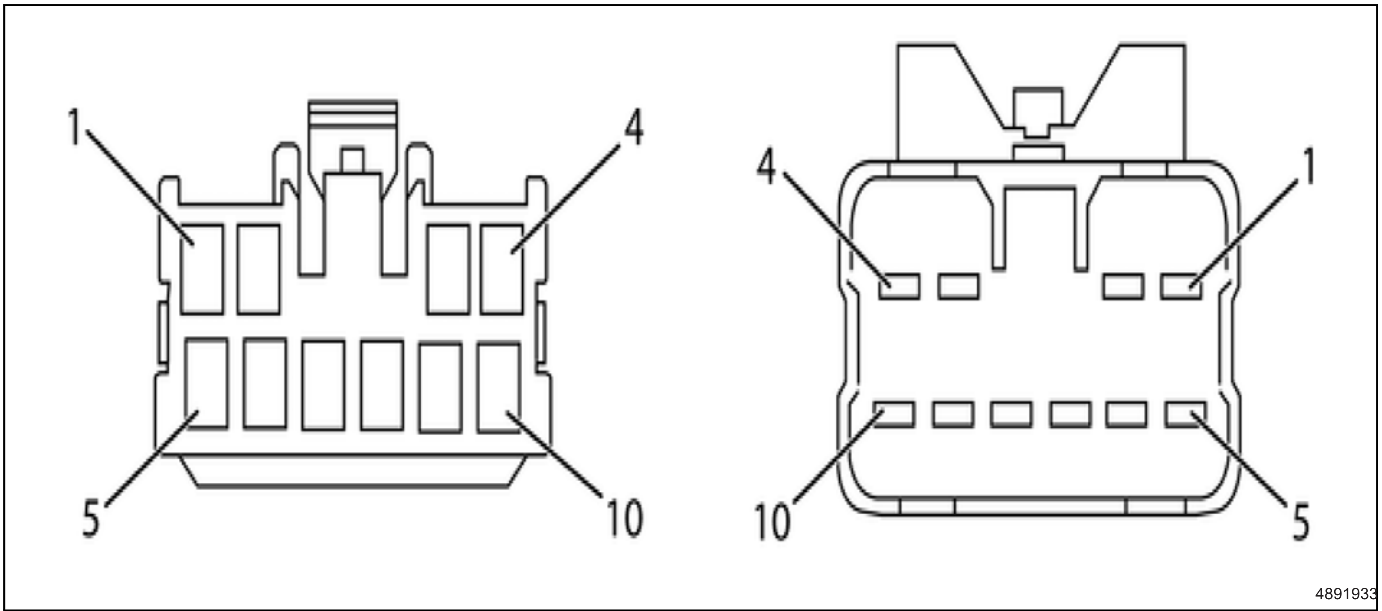
Connector Part Information		- 7383-1222 - 22-Way F (WHT)		Connector Part Information		- 7383-1222 - 22-Way M (WHT)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
22	GRN/BLK	JA014C	Right Turn Signal Supply Voltage to Lamp	22	GRN/BLK	JA014B	Right Turn Signal Supply Voltage from Flasher Module

Front of the Cab, Behind the Washer Fluid Reservoir


H-89
H-99
H-90
H-81
H-80
H-216
H-91
H-82
H-88
H-83
H-18

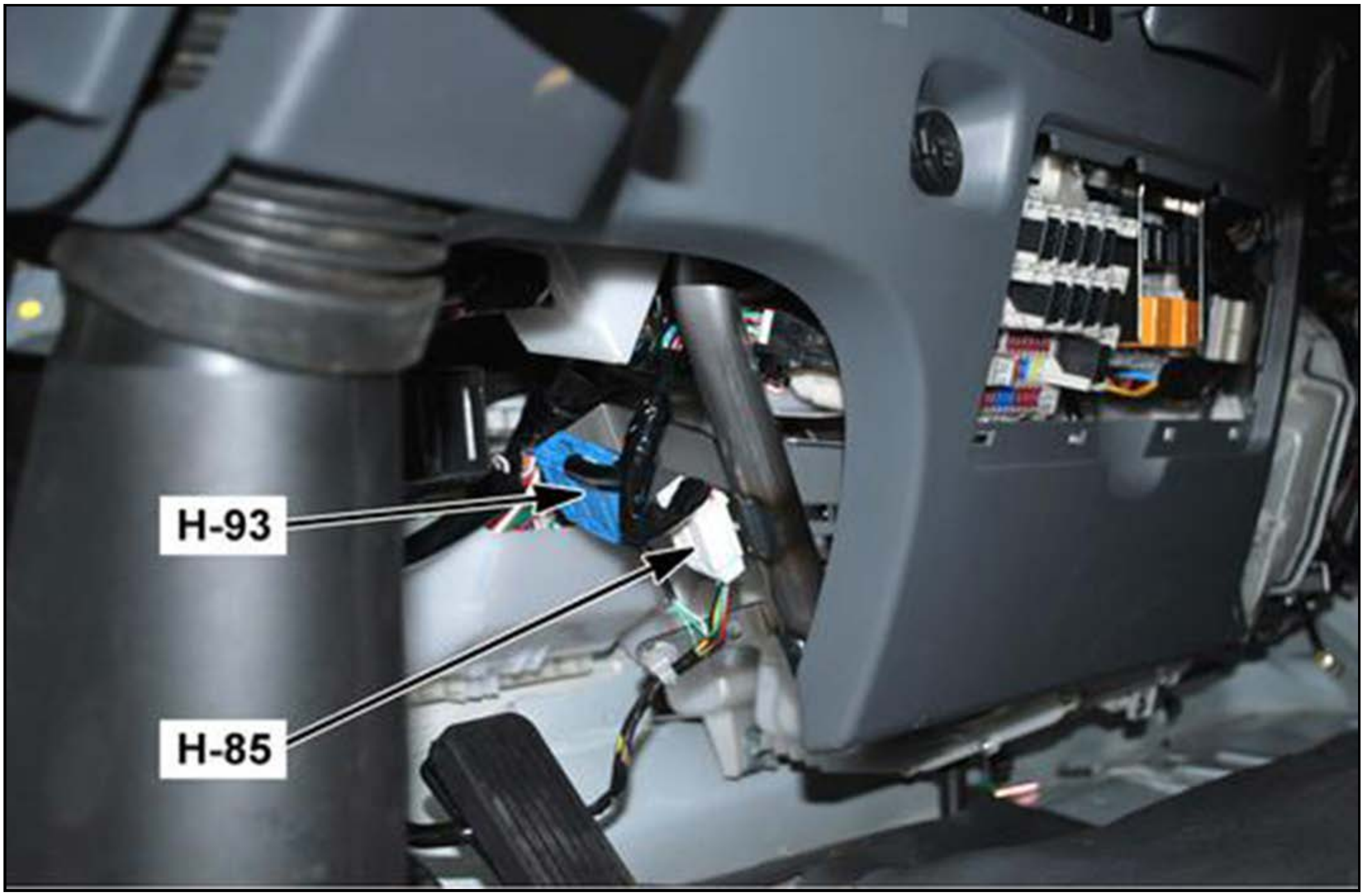
4891871

H-85 Floor Harness to I/P Harness



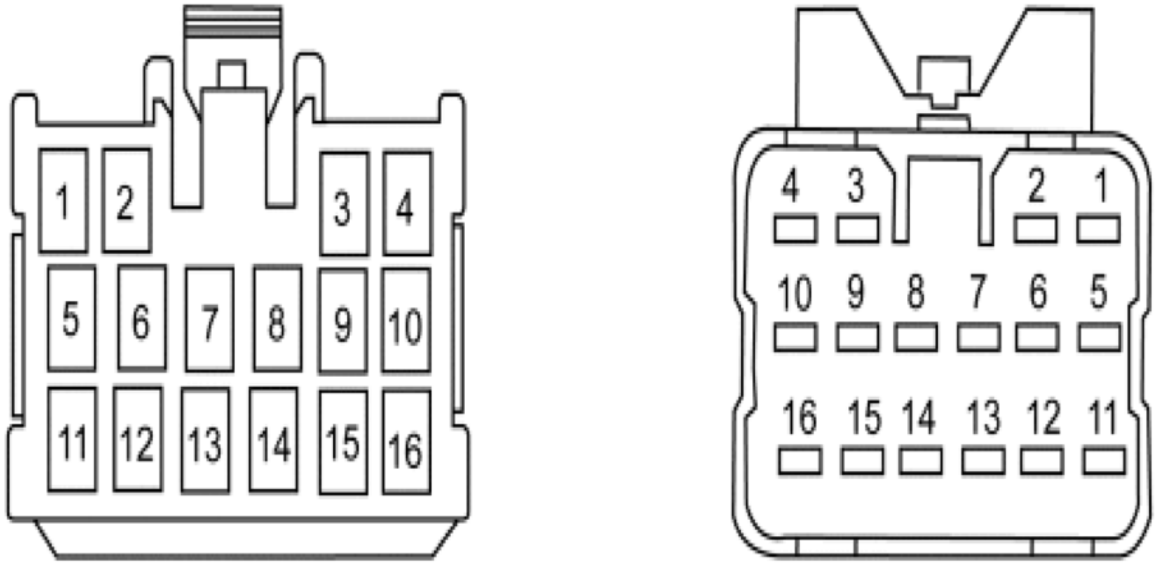
Connector Part Information	7323-8307 10-Way F (WHT)			Connector Part Information	7323-8307 10-Way M (WHT)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	BLK	MX06	Ground to B-600 Splice Pack (B-51 Ground) to Seat Belt Switch	1	BLK	MX024B	Ground to B-600 Splice Pack (B-51 Ground)
2	YEL/RED	IA14	Door Switch Signal from Door Switches	2	GRY	IA014B	Door Switch Signal to Dome Lamp
3–4	—	—	Not Used	3–4	—	—	Not Used
5	RED/WHT	OA190	Ignition Voltage from Fuse F-24 to Shift Lever	5	RED/YEL	OA190B	Ignition Voltage from Fuse F-24 from J/B 2 (B-145 pin 13)
6	LT GRN/RED	OA91	Ignition Voltage from Fuse F-18 to Shift Lever	6	LT GRN/RED	OA091B	Ignition Voltage from Fuse F-18 from J/B 1 (B-132 pin 13)
7	GRN	OA92	Switched Output Voltage from X-1 Stop Lamp Relay from Relay	7	GRN	OA092B	Switched Output Voltage from X-1 Stop Lamp Relay to Shift Lever
8	BLU/WHT	OA93	Key Lock Solenoid Control to Shift Lever	8	BLU/WHT	OA093B	Key Lock Solenoid Control to Key Lock Solenoid
9	BLK	OX20	Ground to Shift Lever	9	BLK	OX020B	Ground to Splice 18 (B-55 and B-221)
10	—	—	Not Used	10	—	—	Not Used

Center of the I/P, Above the Accelerator Pedal



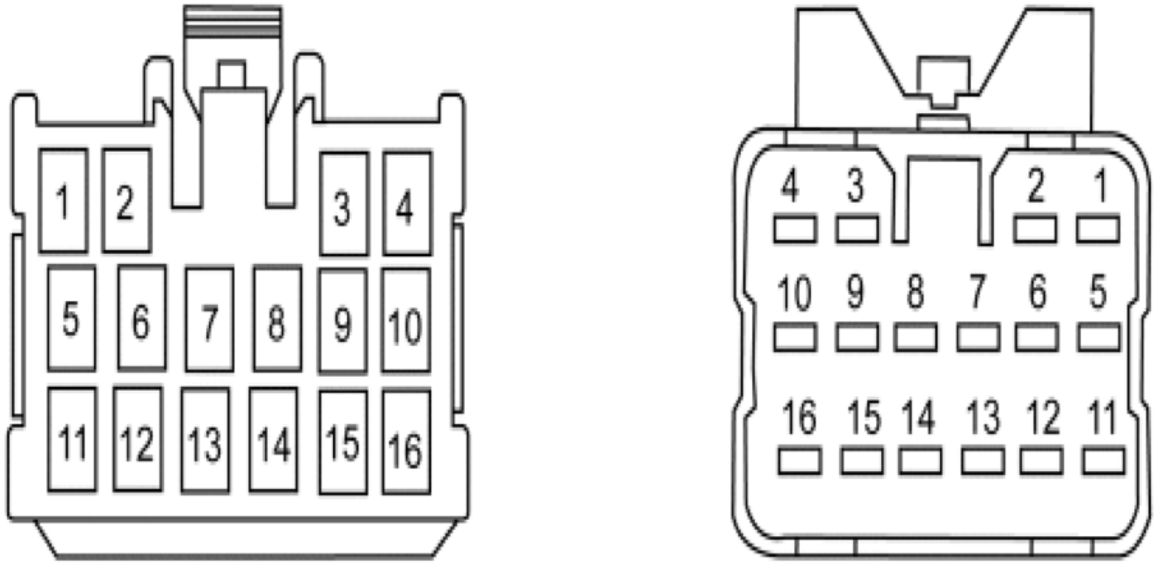
4891943

H-87 Door Harness (RH) to I/P Harness



4891945

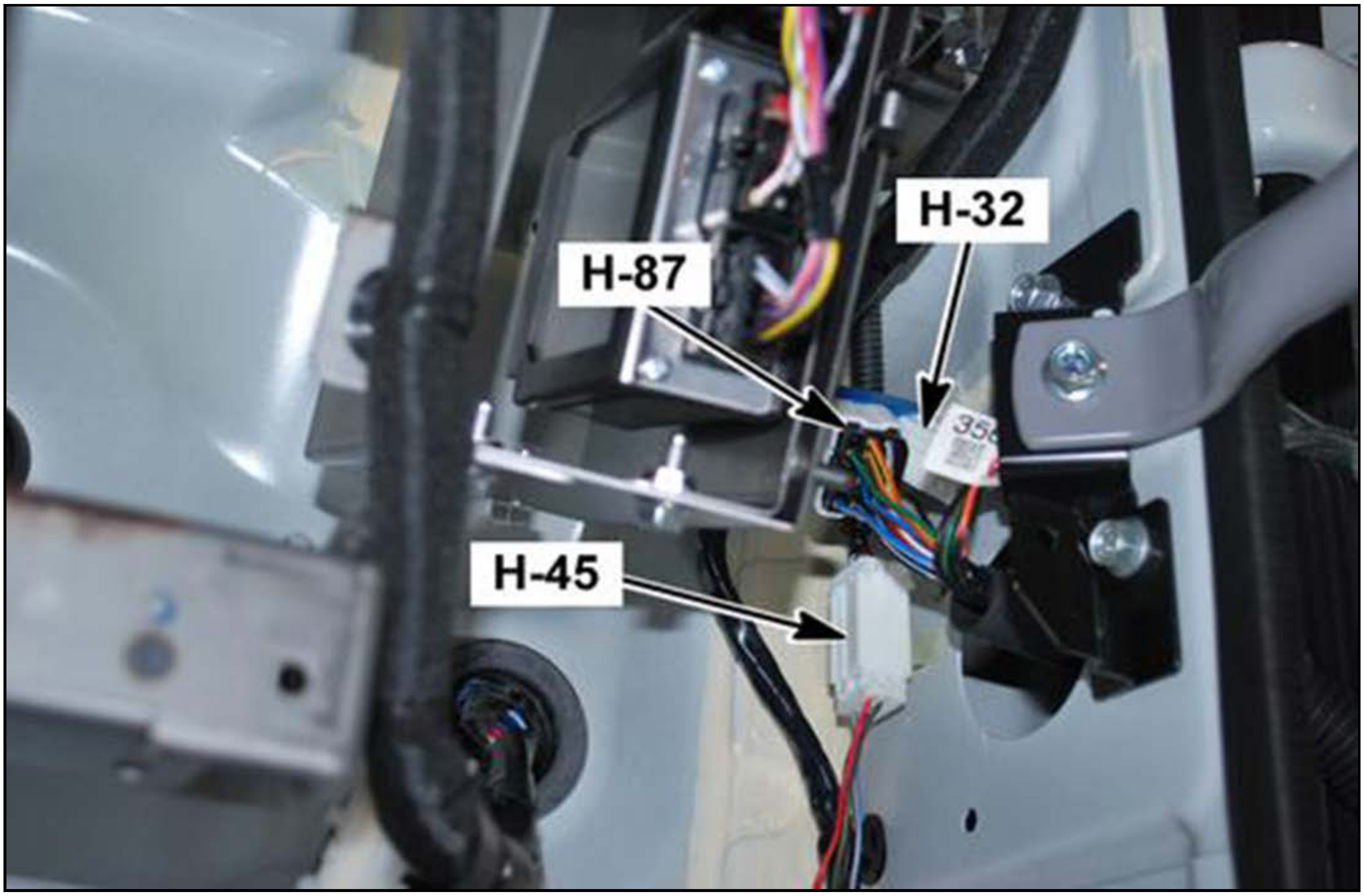
Connector Part Information		• 7383-1160-30 • 16-Way F (BLK)		Connector Part Information		• 7383-1160 • 16-Way M (WHT)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	RED/YEL	WA16	Mirror Heater Relay (RH) (Switched Output Voltage) to Lower Mirror Heater	1	RED/YEL	WA17	Mirror Heater Relay (RH) (Switched Output Voltage) to B-379 Splice Pack
2	YEL/RED	WA11B	Mirror Heater Relay (RH) (Switched Output Voltage) to Upper Mirror Heater	2	YEL/RED	WA19	Mirror Heater Relay (RH) (Switched Output Voltage) to B-379 Splice Pack
3	—	—	Not Used	3	—	—	Not Used
4	BLU/WHT	UA22	Power Window Up Voltage to Front Power Window Switch (RH)	4	BLU/WHT	UA004B	Power Window Up Voltage to Front Power Window Switch (LH)
5	YEL/RED	WA19	Mirror Heater Relay (RH) (Switched Output Voltage) to Upper Mirror Heater	5	YEL/RED	WA019B	Mirror Heater Relay (RH) (Switched Output Voltage) to B-379 Splice Pack
6	BRN/YEL	UA16	Battery Voltage from Fuse F-6 to Front Power Window Switch (RH)	6	BRN/YEL	UA016B	Battery Voltage from Fuse F-6 from Fuse/ Relay Center (Cab)
7	GRN/YEL	VA09	Front Door Lock Motor (RH) Lock Voltage to Front Door Lock Motor (RH)	7	GRN/YEL	VA009B	Front Door Lock Motor (RH) Lock Voltage to J/B 2 B-143 Pin 15
8	BLU/RED	UA23	Power Window Down Voltage to Front Power Window Switch (RH)	8	BLU/RED	UA005B	Power Window Down Voltage to Front Power Window Switch (LH)
9	—	—	Not Used	9	—	—	Not Used
10	BLK	WX08	Ground to B-48 Junction Block (B-53 Ground) to Mirror (RH)	10	BLK/WHT	WX008B	Ground to B-48 Junction Block (B-53 Ground)



4891945

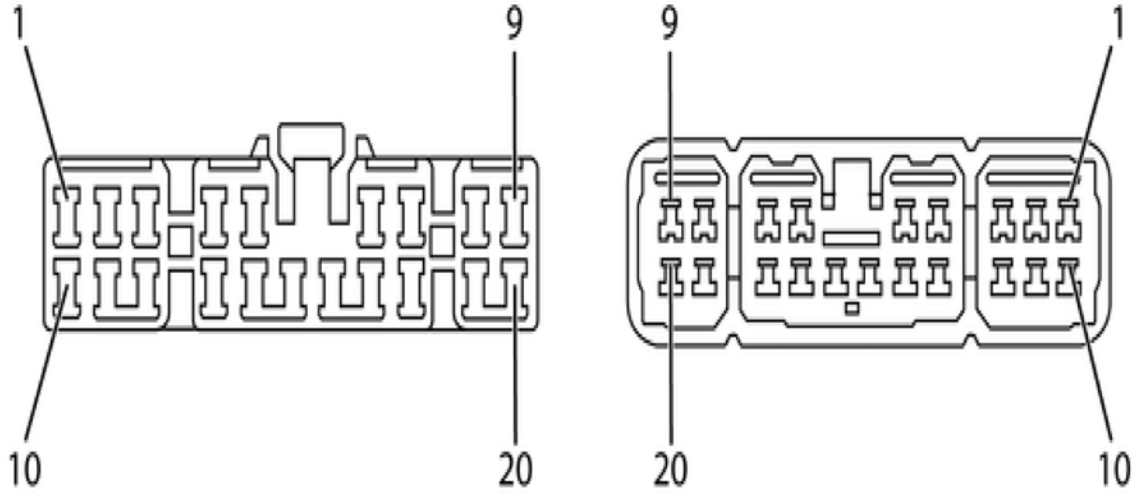
Connector Part Information		• 7383-1160-30 • 16-Way F (BLK)		Connector Part Information		• 7383-1160 • 16-Way M (WHT)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
11	WHT/BLK	WA09	Up/Down Mirror Control to Mirror	11	WHT/BLK	WA009B	Up/Down Mirror Control to Power Mirror Switch
12	BLK/GRN	WA11	Left/Right Mirror Control to Mirror	12	BLK/GRN	WA011B	Left/Right Mirror Control to Power Mirror Switch
13	BLK/WHT	WA13	Common Mirror Control to Mirror	13	BLK/WHT	WA013B	Common Mirror Control to Power Mirror Switch
14	RED/YEL	WA17	Mirror Heater Relay (RH) (Switched Output Voltage) to Lower Mirror Heater	14	RED/YEL	WA017B	Mirror Heater Relay (RH) (Switched Output Voltage) to B-379 Splice Pack
15	—	—	Not Used	15	—	—	Not Used
16	BLK	WX06	Ground to B-48 Junction Block (B-53 Ground) to Mirror (RH)	16	BLK	WX006B	Ground to B-48 Junction Block (B-53 Ground)

Right Side of the I/P, at the A-Pillar (Trim Panel is Removed)



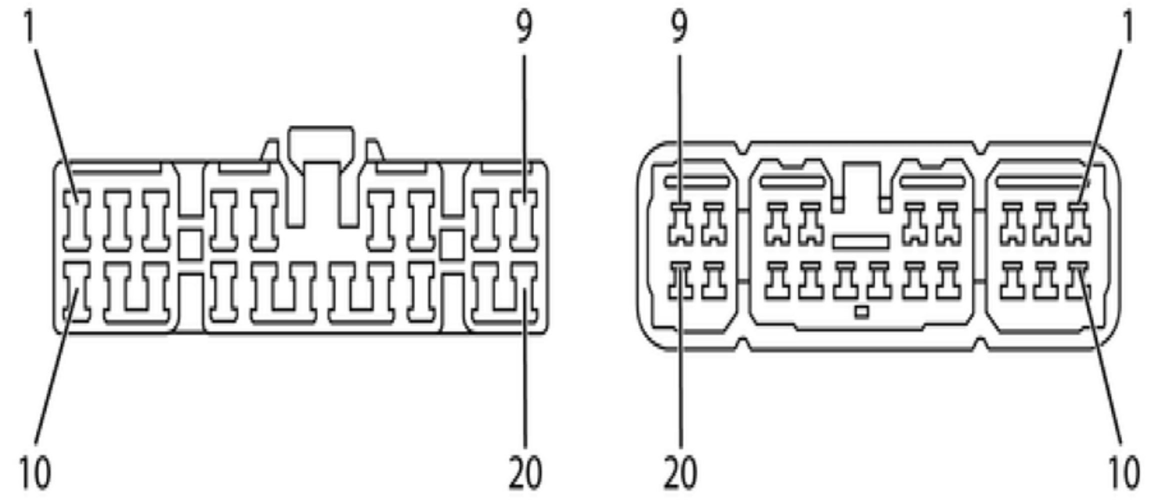
4891880

H-88 Front Chassis Harness to I/P Harness



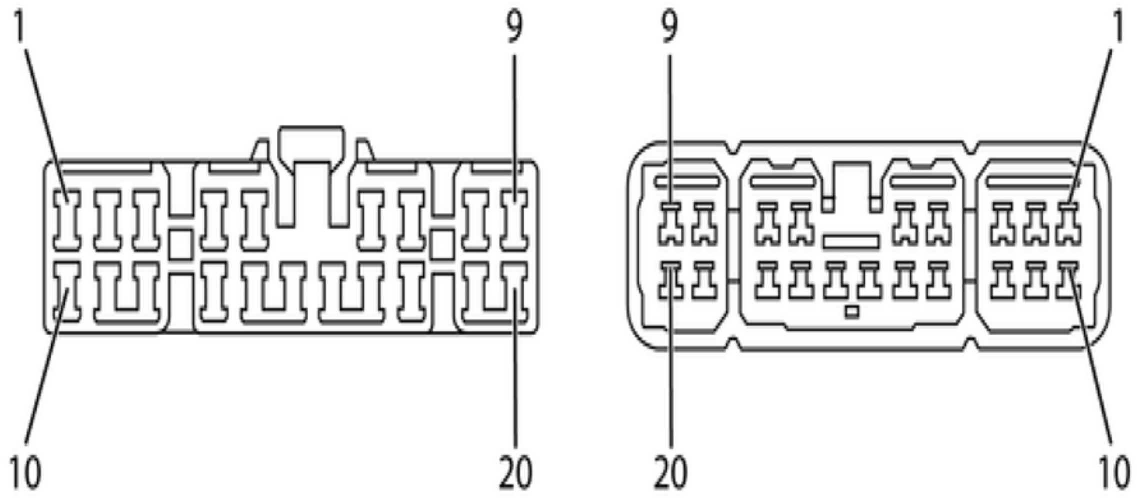
4891914

Connector Part Information		• 7383-1200-50 • 20-Way F (ORN)		Connector Part Information		• 7382-1200-50 • 20-Way M (ORN)	
Pin	Wire Color	Circuit No	Function	Pin	Wire Color	Circuit No	Function
1	BLK/RED	OA060C	Engine Speed Sensor Supply Voltage from Sensor	1	BLK/RED	OA060B	Engine Speed Sensor Supply Voltage to TCM



4891914

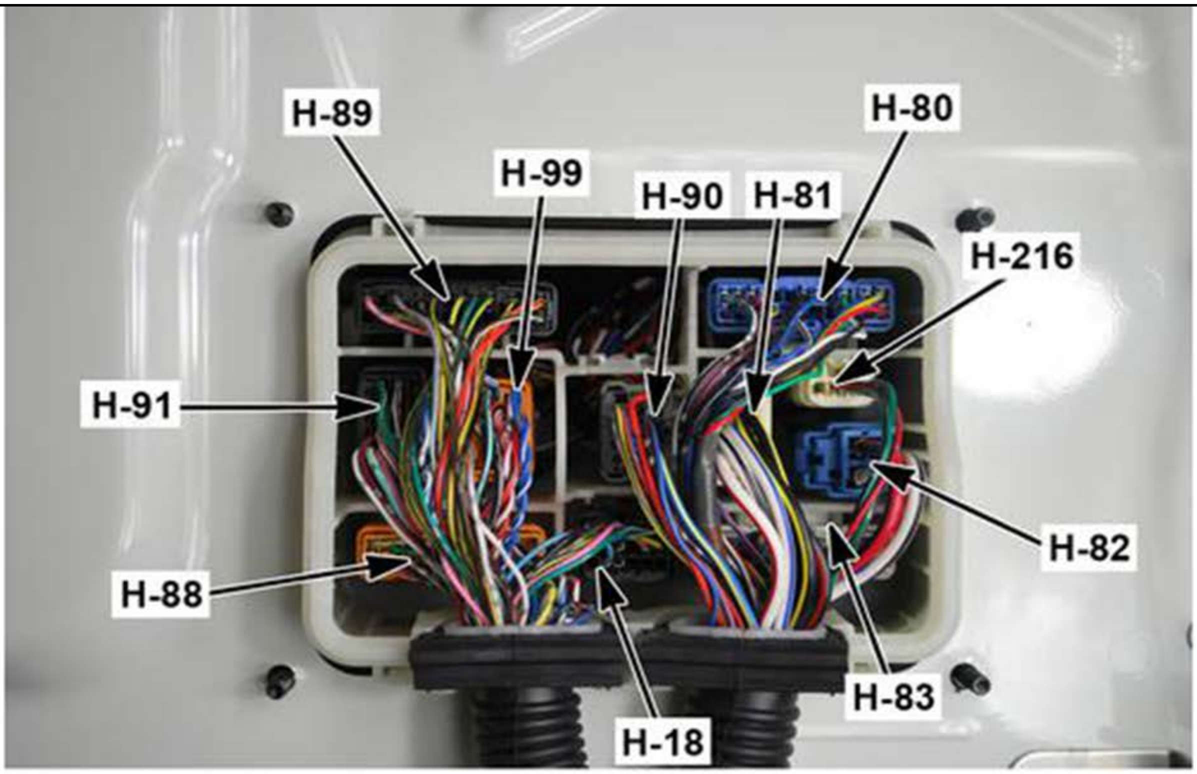
Connector Part Information	• 7383-1200-50 • 20-Way F (ORN)			Connector Part Information	• 7382-1200-50 • 20-Way M (ORN)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
2	WHT/RED	OA061C	Engine Speed Sensor Signal from Sensor	2	WHT/RED	OA061B	Engine Speed Sensor Signal to TCM
3	BLK/BLU	OA062C	Output Shaft Speed (OSS) Sensor 5-Volt Supply to Sensor	3	BLK/BLU	OA062B	Output Shaft Speed (OSS) Sensor Signal to TCM
4	WHT/BLU	OA063C	Output Shaft Speed (OSS) Sensor Signal to Sensor	4	WHT/BLU	OA063B	Output Shaft Speed (OSS) Sensor Signal to TCM
5	YEL	OA064C	Input Shaft Speed (ISS) Sensor 5-Volt Supply to Sensor	5	YEL	OA064B	Input Shaft Speed (ISS) Sensor 5-Volt Supply to TCM
6	BLU	OA065C	Input Shaft Speed (ISS) Sensor Signal to Sensor	6	BLU	OA065B	Input Shaft Speed (ISS) Sensor Signal to TCM
7	GRN	OA066C	Pressure Switch 3 (PS3) Signal from Transmission	7	GRN	OA066B	Pressure Switch 3 (PS3) Signal from TCM
8	GRN/BLK	OA067C	Pressure Switch 1 (PS1) Signal from Transmission	8	GRN/BLK	OA067B	Pressure Switch 1 (PS1) Signal from TCM
9	YEL/GRN	OA083C	Pressure Switch 4 (PS4) Signal from Transmission	9	YEL/GRN	OA083B	Pressure Switch 4 (PS4) Signal from TCM
10	—	—	Not Used	10	—	—	Not Used
11	GRN/WHT	OA070C	Internal Mode Switch "CE" Signal from Transmission	11	GRN/WHT	OA070B	Internal Mode Switch "CE" Signal to TCM
12	BLU/RED	OA071C	Internal Mode Switch "C" Signal from Transmission	12	BLU/RED	OA071B	Internal Mode Switch "C" Signal to TCM
13	BLU	OA072C	Internal Mode Switch "B" Signal from Transmission	13	BLU	OA072B	Internal Mode Switch "B" Signal to TCM
14	BLU/YEL	OA073C	Internal Mode Switch "A" Signal from Transmission	14	BLU/YEL	OA073B	Internal Mode Switch "A" Signal to TCM



4891914

Connector Part Information		• 7383-1200-50 • 20-Way F (ORN)		Connector Part Information		• 7382-1200-50 • 20-Way M (ORN)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
15	WHT	OA074C	Shift Solenoid 3 (SS 3) Valve Control to Transmission	15	WHT	OA074B	Shift Solenoid 3 (SS 3) Valve Control to TCM
16	WHT/BLK	OA075C	Shift Solenoid 2 (SS 2) Valve Control to Transmission	16	WBT/BLK	OA075B	Shift Solenoid 2 (SS 2) Valve Control to TCM
17	WHT/GRN	OA076C	Shift Solenoid 1 (SS 1) Valve Control to Transmission	17	WHT/GRN	OA076B	Shift Solenoid 1 (SS 1) Valve Control to TCM
18	WHT/BLU	OA077C	Pressure Control Solenoid 2 (PCS2) Control from Transmission	18	WHT/BLU	OA077B	Pressure Control Solenoid 2 (PCS2) Control from TCM
19	BRN/BLK	OA078C	High Side Driver (HSD) 2 Voltage to Transmission	19	BRN/BLK	OA078B	High Side Driver (HSD) 2 Voltage to TCM
20	WHT/RED	OA079C	Main Modulator Solenoid Control from Transmission	20	WHT/RED	OA079B	Main Modulator Solenoid Control to TCM

Front of the Cab, Behind the Washer Fluid Reservoir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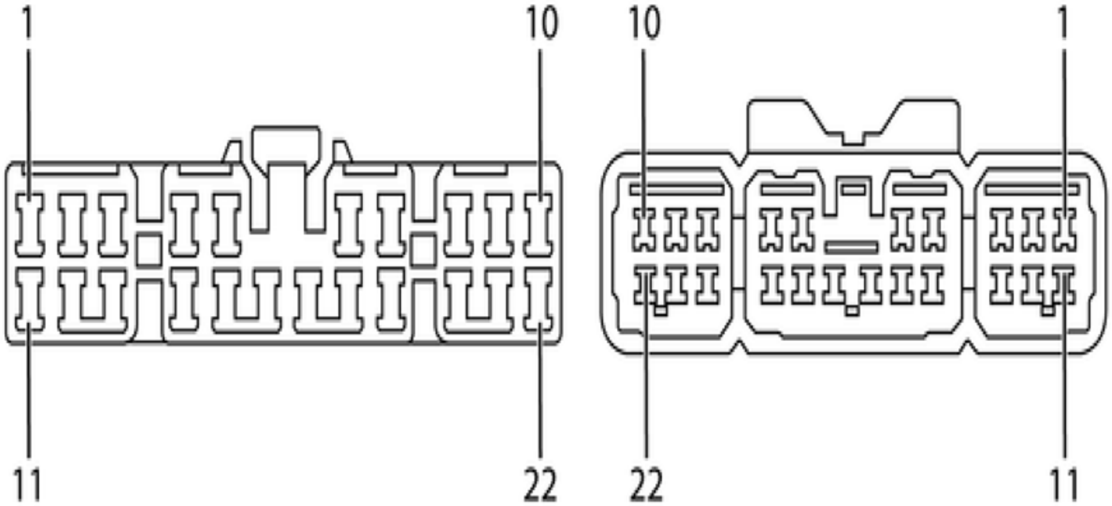
H-83
H-18

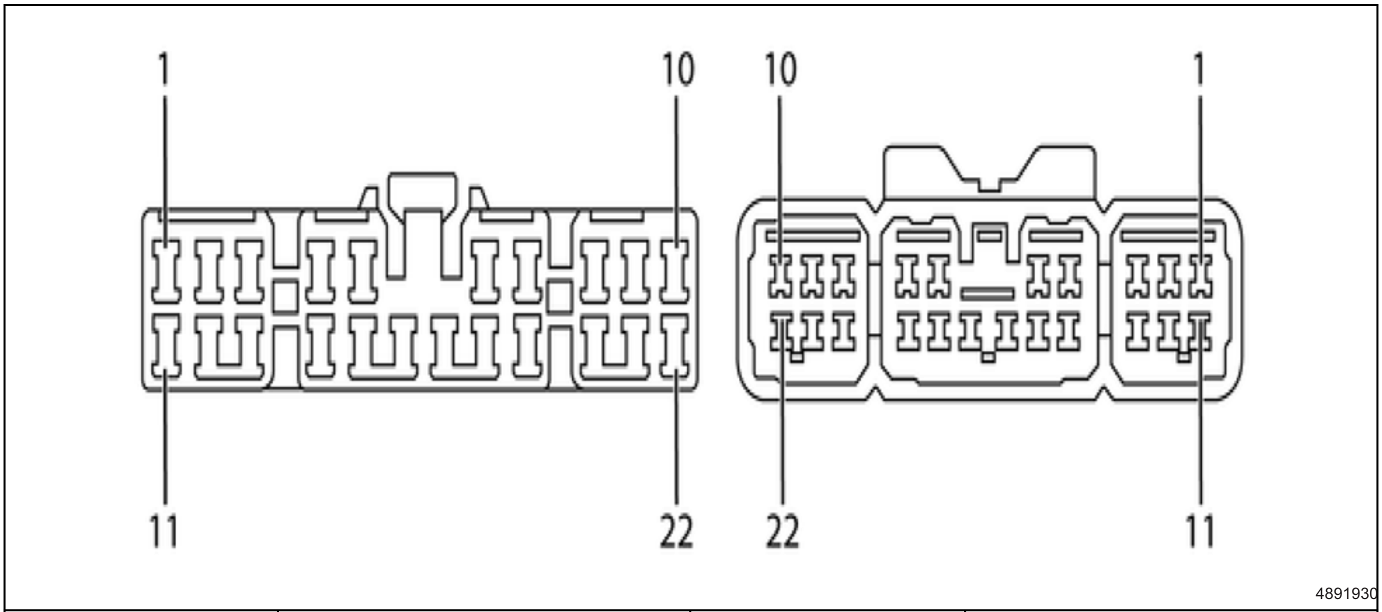
4891871

H-89 Front Chassis Harness to I/P Harness

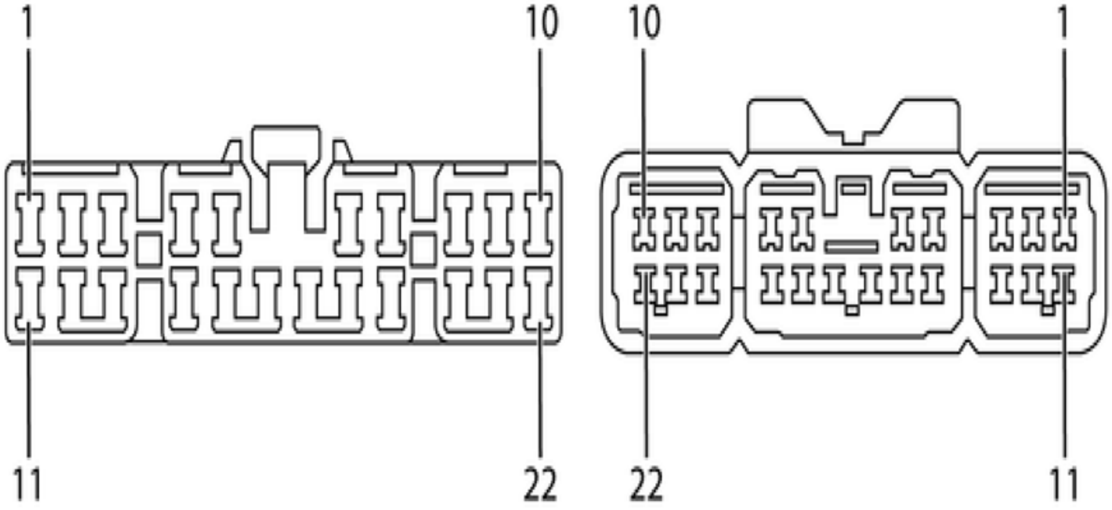

1
10
10
1
11
22
22
11

4891930

Connector Part Information		• 7383-1222-30 • 22-Way F (BLK)		Connector Part Information		• 7383-1222-30 • 22-Way M (BLK)	
Pin	Wire Color	Circuit No	Function	Pin	Wire Color	Circuit No	Function
1	—	—	Not Used	1	—	—	Not Used

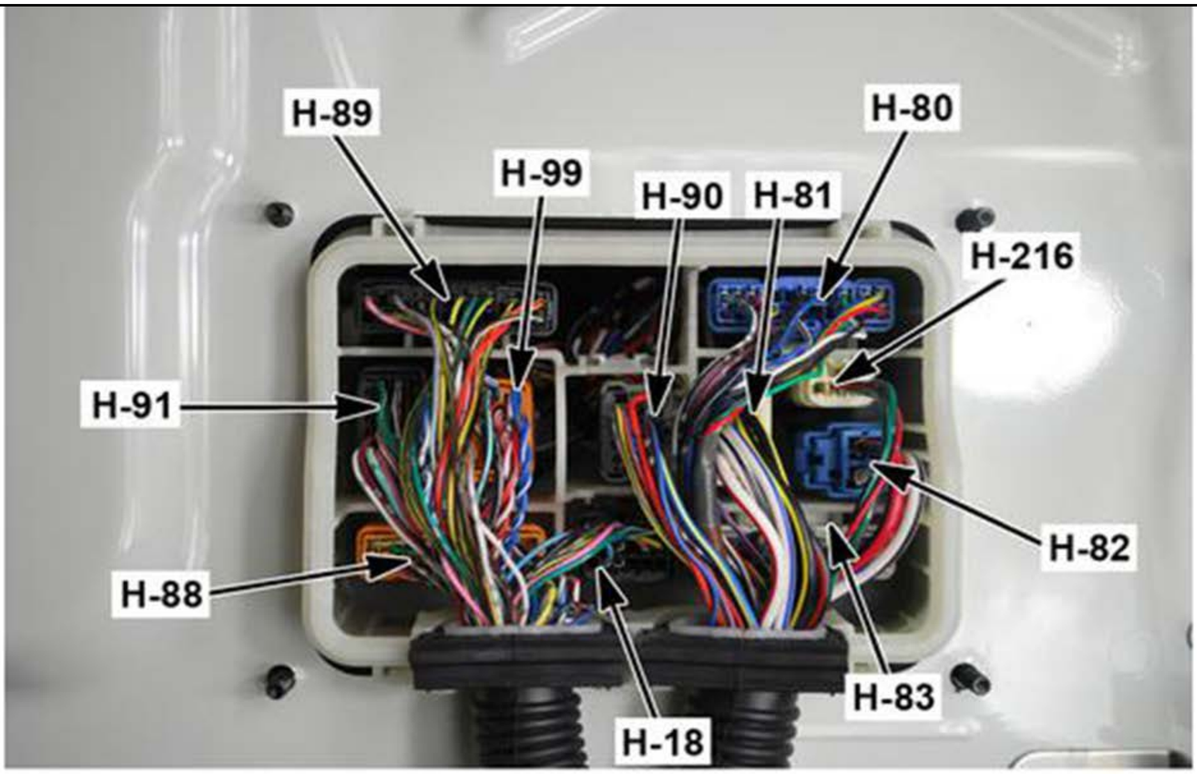


Connector Part Information		• 7383-1222-30 • 22-Way F (BLK)		Connector Part Information		• 7383-1222-30 • 22-Way M (BLK)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
2	YEL/BRN	OA082C	High Side Driver (HSD) 1 Voltage to Transmission	2	YEL/BRN	OA082B	High Side Driver (HSD) 1 Voltage from TCM
3	WHT	OA051C	PTO Switch to TCM	3	WHT	OA051B	PTO Switch to B-246 Body Builder Connector and H-104 PTO Connector
4	WHT	MA087C	Low Reference for Primary and Secondary Air Pressure Gauges from Sensors	4	WHT	MA086B	Low Reference for Primary and Secondary Air Pressure Gauges to IPC
5–9	—	—	Not Used	5–9	—	—	Not Used
10	BRN/WHT	OA080C	Torque Converter Clutch (TCC) Solenoid Control to Transmission	10	BRN/WHT	OA080B	Torque Converter Clutch (TCC) Solenoid Control to TCM
11	PNK	QA001C	Battery Voltage from Fuse F-37 from Fuse/Relay Center	11	PNK	QA001B	Battery Voltage from Fuse F-37 to Condenser Fan Relay
12	—	—	Not Used	12	—	—	Not Used
13	GRY	HA010C	X-20 Compressor Clutch Relay Coil Control from Relay	13	GRY	HA010B	X-20 Compressor Clutch Relay Coil Control to Electronic Thermostat
14	BLK	OA086C	Analog Signal Return to Transmission	14	BRN/GRN	OA086B	Analog Sensor Signal Return to TCM
15	BRN/YEL	HA012C	Voltage from A/C Pressure Switch to A/C Compressor	15	BRN/YEL	HA012B	Voltage from A/C Pressure Switch from Switch
16	—	—	Not Used	16	—	—	Not Used
17	YEL/BLK	OA081C	Pressure Control Solenoid 1 (PCS1) Control from Transmission	17	YEL/BLK	OA081B	Pressure Control Solenoid 1 (PCS1) Control from TCM



Connector Part Information		• 7383-1222-30 • 22-Way F (BLK)		Connector Part Information		• 7383-1222-30 • 22-Way M (BLK)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
18	GRN/RED	OA069C	Internal Mode Switch "P" Signal from Transmission	18	GRN/RED	OA069B	Internal Mode Switch "P" Signal from TCM
19	GRN/YEL	OA068C	Pressure Switch 2 (PS2) Signal from Transmission	19	GRN/YEL	OA068B	Pressure Switch 2 (PS2) Signal from TCM
20	BRN/YEL	OA097C	High Side Driver (HSD) 3 Voltage to Transmission	20	BRN/YEL	OA097B	High Side Driver (HSD) 3 Voltage to TCM
21	ORN	OA098C	Pressure Control Solenoid 3 (PCS3) Control from Transmission	21	ORN	OA098B	Pressure Control Solenoid 3 (PCS3) Control from TCM
22	YEL/RED	OA085C	Transmission Fluid Temperature Sensor Signal to Transmission	22	YEL/RED	OA085B	Transmission Fluid Temperature Sensor Signal to TCM

Front of the Cab, Behind the Washer Fluid Reservoir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H-83
H-18

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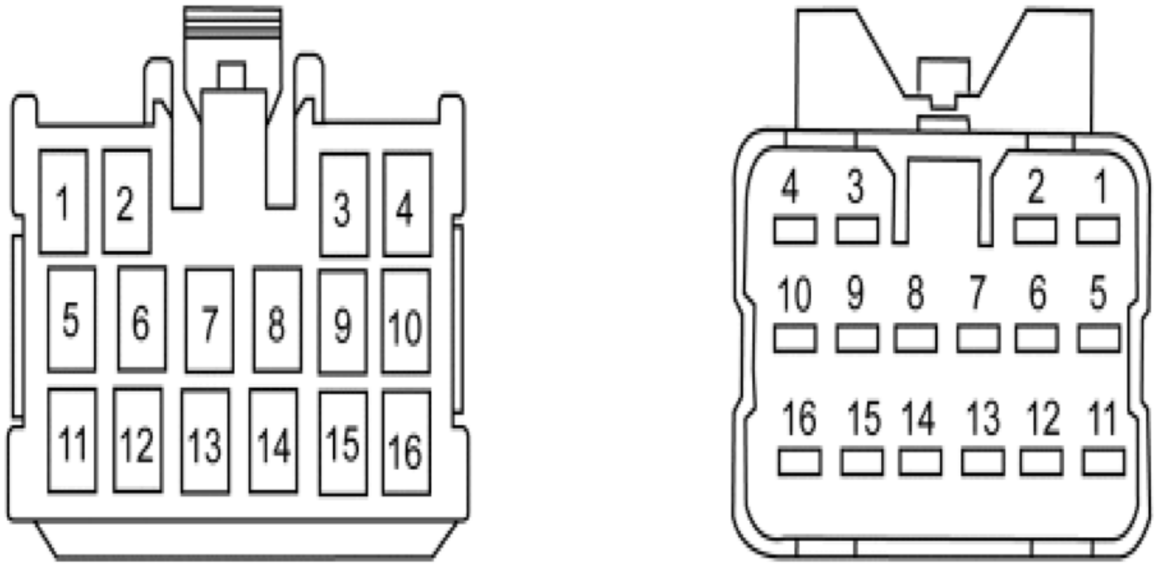
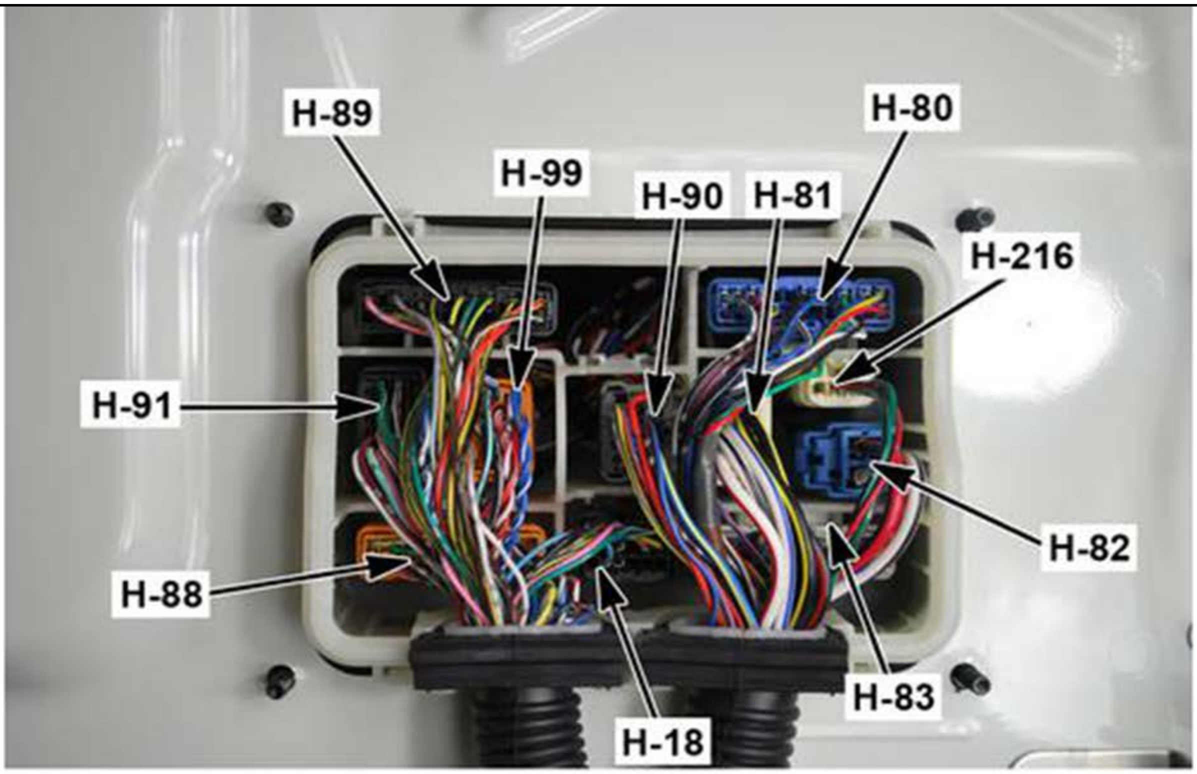
H-90 Front Chassis Harness to I/P Harness



4891945

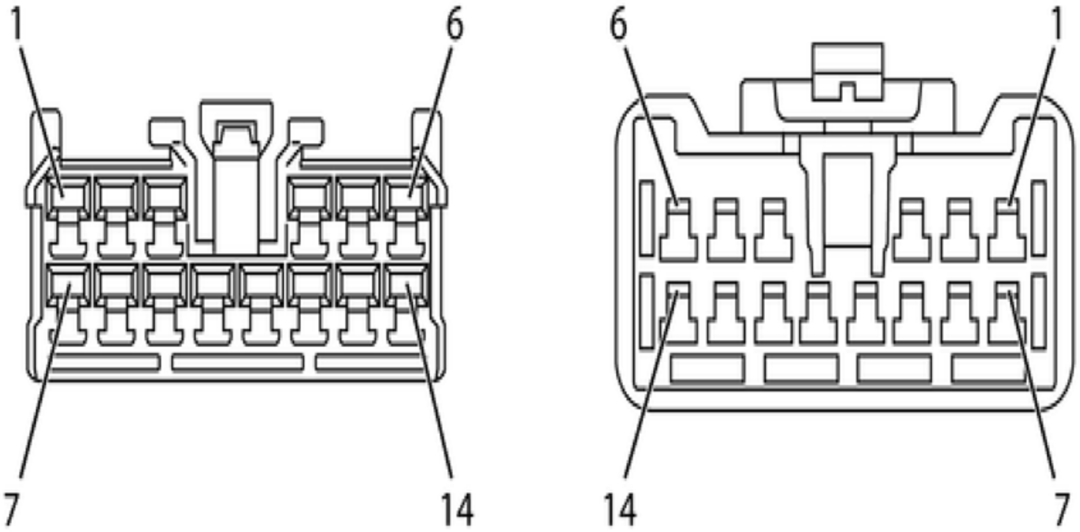
Connector Part Information	• 7383-1160-10 • 16-Way F (DK GRY)			**Connector Part Information**	• 7383-1160-10 • 16-Way M (DK GRY)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	BLU/YEL	IC095C	PTO Up/Down Switch (Down - PTO Set) from Switch	1	BLU/YEL	IC095B	PTO Up/Down Switch (Down - PTO Set) to J-133 Diode 1
2	BLU/ORN	IC092C	PTO Up/Down Switch (Up + PTO Resume) from Switch	2	BLU/ORN	IC092B	PTO Up/Down Switch (Up + PTO Resume) to J-135 Diode 2
3	—	—	Not Used	3	—	—	Not Used
4	ORN	PA045C	Battery Voltage from Fuse F-35 from Fuse/Relay Center	4	ORN	OA090B	Battery Voltage from Fuse F-35 to B-376 Splice Pack
5–9	—	—	Not Used	5–9	—	—	Not Used
10	BLK/RED	HA062C	Fuse F-30 Voltage (Fan Control Switch ON) to Compressor Clutch Relay X-20 (Coil Feed)	10	BLK/RED	HA062B	Fuse F-30 Voltage (Fan Control Switch ON) from J/B 2 (B-139 pin 2)
11	BLU/YEL	DA005C	Fuse F-16, Fuse/ Relay Center (Cab) to Air Dryer	11	BLU/YEL	DA005B	Voltage from Fuse F-16, Fuse/Relay Center (Cab)
12	BLU/YEL	MA015C	Air Filter Switch Signal from Switch	12	BLU/YEL	MA015B	Air Filter Switch Signal to IPC
13	RED/WHT	IC017C	Switched Output Voltage from Stop Lamp Switch Relay	13	RED/WHT	IC017B	Switched Output Voltage from Stop Lamp Switch Relay to ECM
14	YEL/BLK	IC010C	MIL Lamp Control from ECM	14	YEL/BLK	IC010B	MIL Lamp Control to IPC
15	ORN/BLU	IC008C	Glow Plug Indicator Control to ECM	15	ORN/BLU	IC008B	Glow Plug Indicator Control to IPC
16	—	—	Not Used	16	—	—	Not Used

Front of the Cab, Behind the Washer Fluid Reservoir



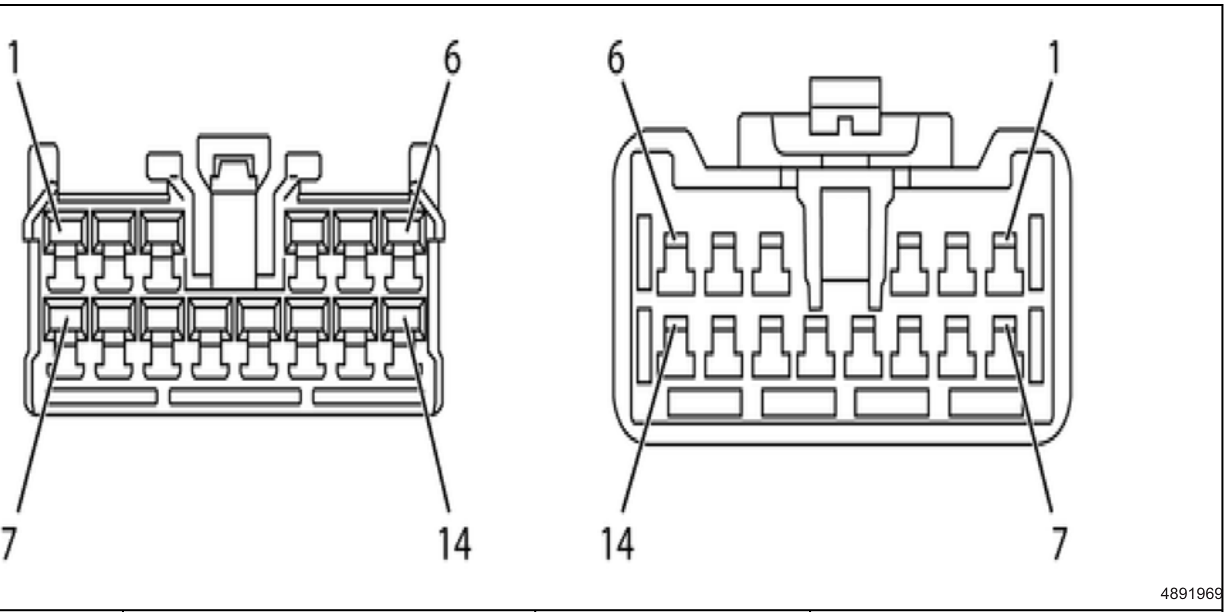
4891871

H-91 Front Chassis Harness to I/P Harness



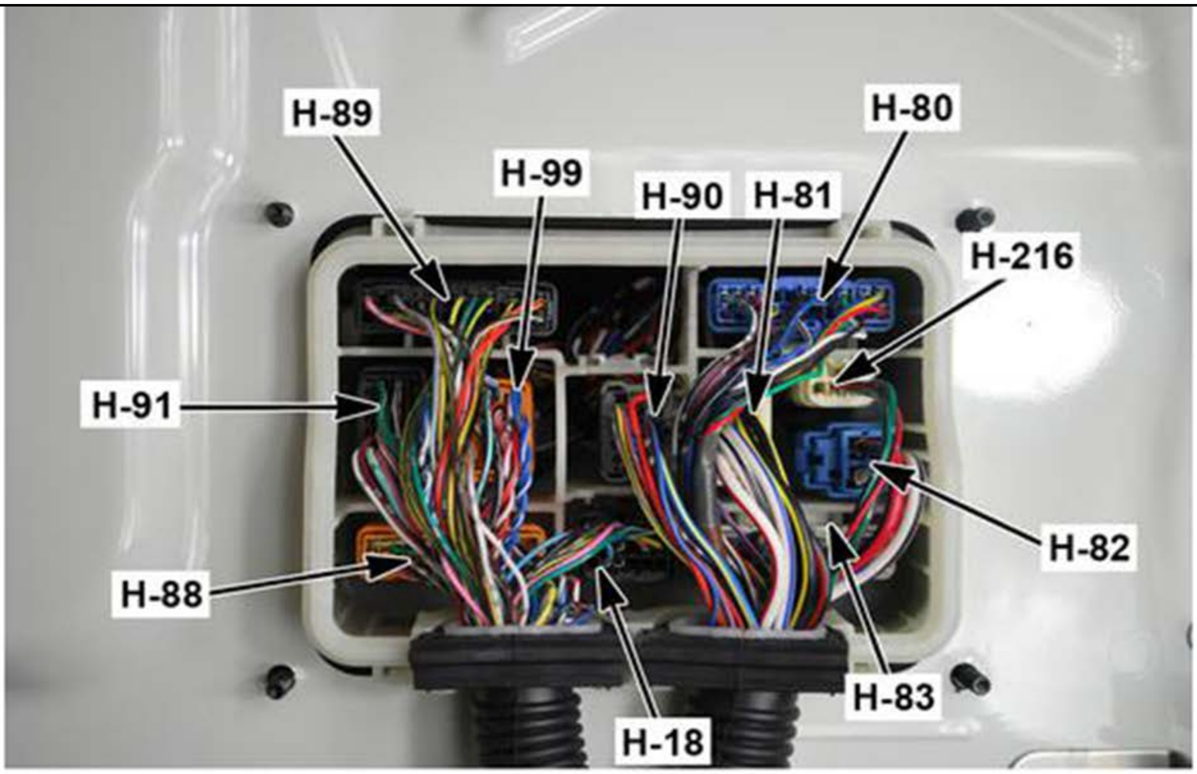
4891969

Connector Part Information		- 7383-4946-30 - 14-Way F (BLK)		Connector Part Information		- 7382-4946-30 - 14-Way M (BLK)	
Pin	Wire Color	Circuit No	Function	Pin	Wire Color	Circuit No	Function
1	PNK	IC181C	PTO Switch 2 Signal to ECM and Remote PTO Switch	1	PNK	IC181B	PTO Switch 2 Signal to J/B 2 B-142 pin 5



Connector Part Information	7383-4946-30 14-Way F (BLK)			Connector Part Information	7382-4946-30 14-Way M (BLK)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
2	WHT/BLU	MA088C	Voltage to Primary and Secondary Air Pressure Gauges to Sensors	2	WHT/BLU	MA085B	Voltage to Primary and Secondary Air Pressure Gauges to IPC
3	—	—	Not Used	3	—	—	Not Used
4	WHT/RED	MA084C	Secondary Air Pressure Gauge Signal to Sensors	4	VIO/RED	MA084B	Secondary Air Pressure Gauge Signal to IPC
5	BRN/WHT	MA009C	Water Separator Signal to IPC	5	BRN/WHT	MA009B	Water Separator Signal to Fuel Sedimenter Switch
6	WHT/BLK	MA098C	Parking Brake Switch Signal from Parking Brake Switch	6	WHT/BLK	MA098B	Parking Brake Switch Signal to J/B 1 (B-133 pin 16)
7	LT GRN/WHT	MA019C	Fuel Level Gauge Control from Fuel Tank Unit	7	LT GRN/WHT	MA019B	Fuel Level Gauge Control to IPC
8	WHT/GRN	MA083C	Primary Air Pressure Gauge Signal to Sensors	8	WHT/GRN	MA083B	Primary Air Pressure Gauge Signal to IPC
9	—	—	Not Used	9	—	—	Not Used
10	RED/BLU	KA012C	Voltage from Fuse A-4 (In Reverse) from Fuse/Relay Center (Cab) (B- 250 pin 8)	10	RED/BLK	KA015B	Voltage from Fuse A-4 (In Reverse) to Rear Combination Lamps
11–12	—	—	Not Used	11–12	—	—	Not Used
13	GRN	TF436C	ISO 15765 CAN 2 High to In-Line H-177 pin 14	13	GRN	TF036B	ISO 15765 CAN 2 Low to B-235 Splice Pack
14	GRN/WHT	TF435C	ISO 15765 CAN 2 High to In-Line H-177 pin 13	14	GRN/WHT	TF035B	ISO 15765 CAN 2 High to B-236 Splice Pack

Front of the Cab, Behind the Washer Fluid Reservoir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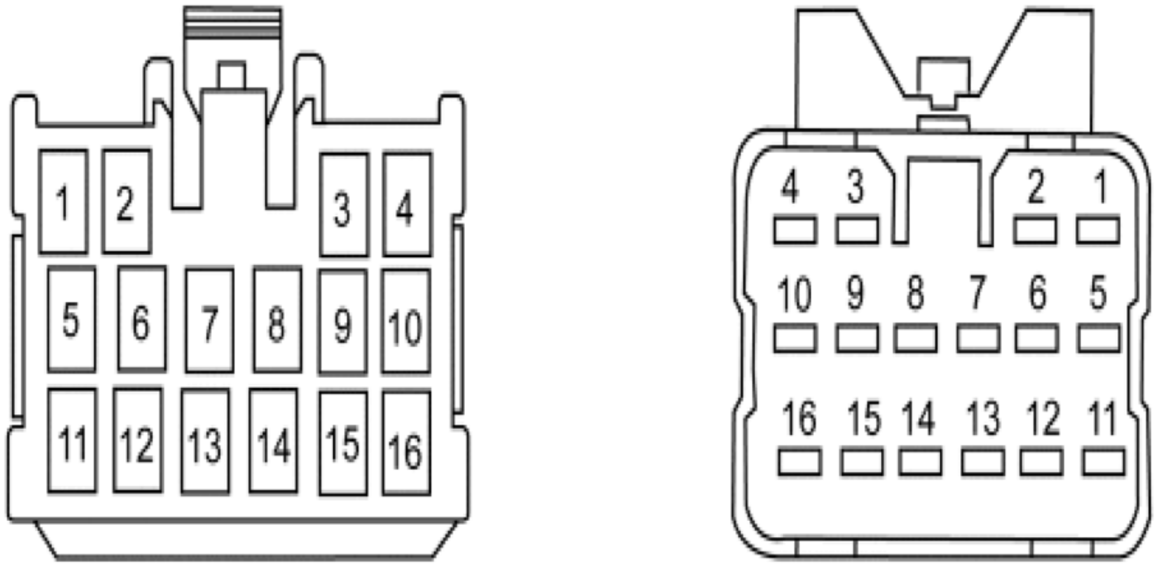
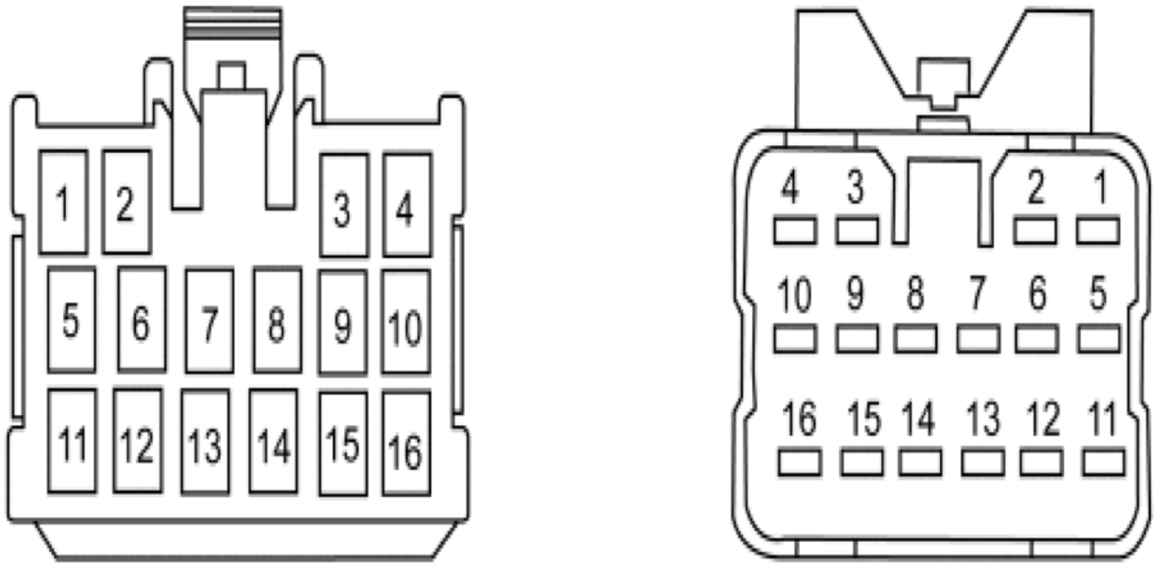
4891871

H-92 I/P Harness to the Door Harness (LH)



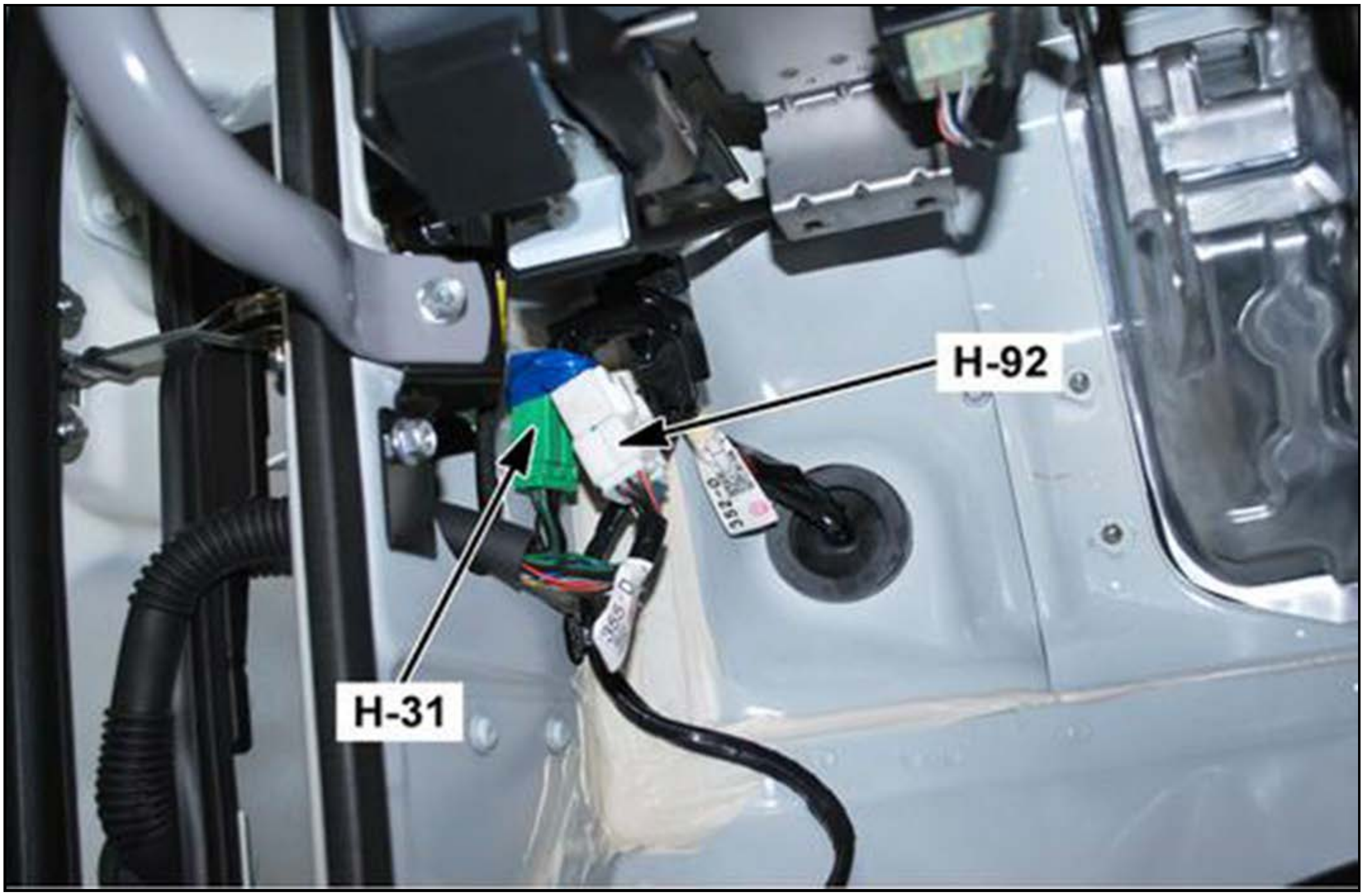
4891945

Connector Part Information	• 7383-1160 • 16-Way F (WHT)			Connector Part Information	• 7383-1160 • 16-Way M (WHT)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	BLU/RED	UA05	Power Window Down Voltage from Front Power Window Switch (LH)	1	BLU/RED	UA005B	Power Window Down Voltage from Front Power Window Switch (RH)
2	GRN/RED	VA106	Door Unlock Signal to Front Door Lock Motor (LH)	2	GRN/RED	VA006B	Door Unlock Signal from J/B 2 B-143 pin 6
3	BRN/YEL	UA03	Battery Voltage from Fuse F-6 to Front Power Window Switch (LH)	3	BRN/YEL	UA003B	Battery Voltage from Fuse F-6 from Fuse/ Relay Center (Cab)
4	RED/GRN	VA105	Door Unlock Signal to Front Door Lock Motor (LH)	4	RED/GRN	HC006B	Door Unlock Signal to RKE Module
5	YEL/RED	WA118	Mirror Heater Relay (LH) (Switched Output Voltage) to Upper Mirror Heater	5	YEL/RED	WA118B	Mirror Heater Relay (LH) (Switched Output Voltage) to B-379 Splice Pack
6	GRN/YEL	VA107	Door Lock Signal to Front Door Lock Motor (LH)	6	RED/YEL	VA007B	Door Lock Signal from J/B 2 B-143 pin 14
7	BLU/WHT	UA04	Power Window Up Voltage from Front Power Window Switch (LH)	7	BLU/WHT	UA004B	Power Window Up Voltage from Front Power Window Switch (RH)
8	GRN/BLK	VA104	Door Lock Signal to Front Door Lock Motor (LH)	8	GRN/BLK	VA004B	Door Lock Signal from J/B 2 (B-140 pin 12)
9	—	—	Not Used	9	—	—	Not Used
10	BLK	WX107	Ground to B-49 Junction Block (B-52 Ground) to Mirror (LH)	10	BLK/WHT	WX107B	Ground to B-49 Junction Block (B-52 Ground)
11	WHT/BLK	WA08	Up/Down Control Mirror (LH) to Mirror	11	WHT/BLK	WA008B	Up/Down Control Mirror (LH) to Power Mirror Switch



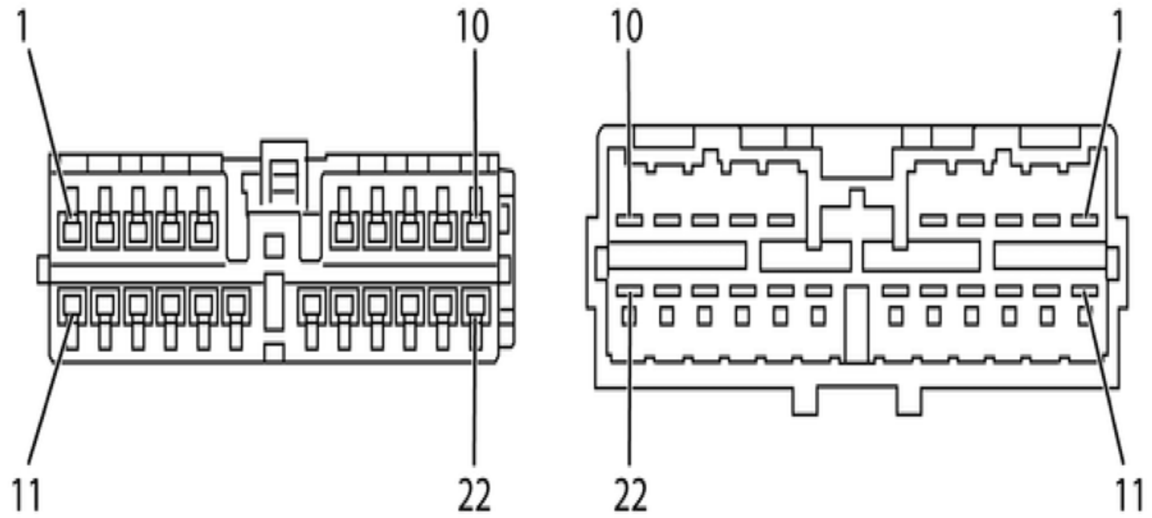
Connector Part Information		• 7383-1160 • 16-Way F (WHT)		**Connector Part Information**		• 7383-1160 • 16-Way M (WHT)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
12	BLK/GRN	WA10	Left/Right Control Mirror (LH) to Mirror	12	BLK/GRN	WA010B	Left/Right Control Mirror (LH) to Mirror to Power Mirror Switch
13	BLK/WHT	WA72 WA12	Common Control for Mirror (LH) and Mirror (RH) to Mirror	13	BLK/WHT	WA012B	Common Control for Mirror (LH) and Mirror (RH) to Power Window Switch
14	RED/YEL	WA16	Mirror Heater Relay (LH) (Switched Output Voltage) to Lower Mirror Heater	14	RED/YEL	WA016B	Mirror Heater Relay (LH) (Switched Output Voltage) to B-379 Splice Pack
15	—	—	Not Used	15	—	—	Not Used
16	BLK	WX05	Ground to B-49 Junction Block (B-52 Ground) to Mirror (LH)	16	BLK	WX005B	Ground to B-49 Junction Block (B-52 Ground)

Behind the Left Side of the I/P, Next to the A-Piller



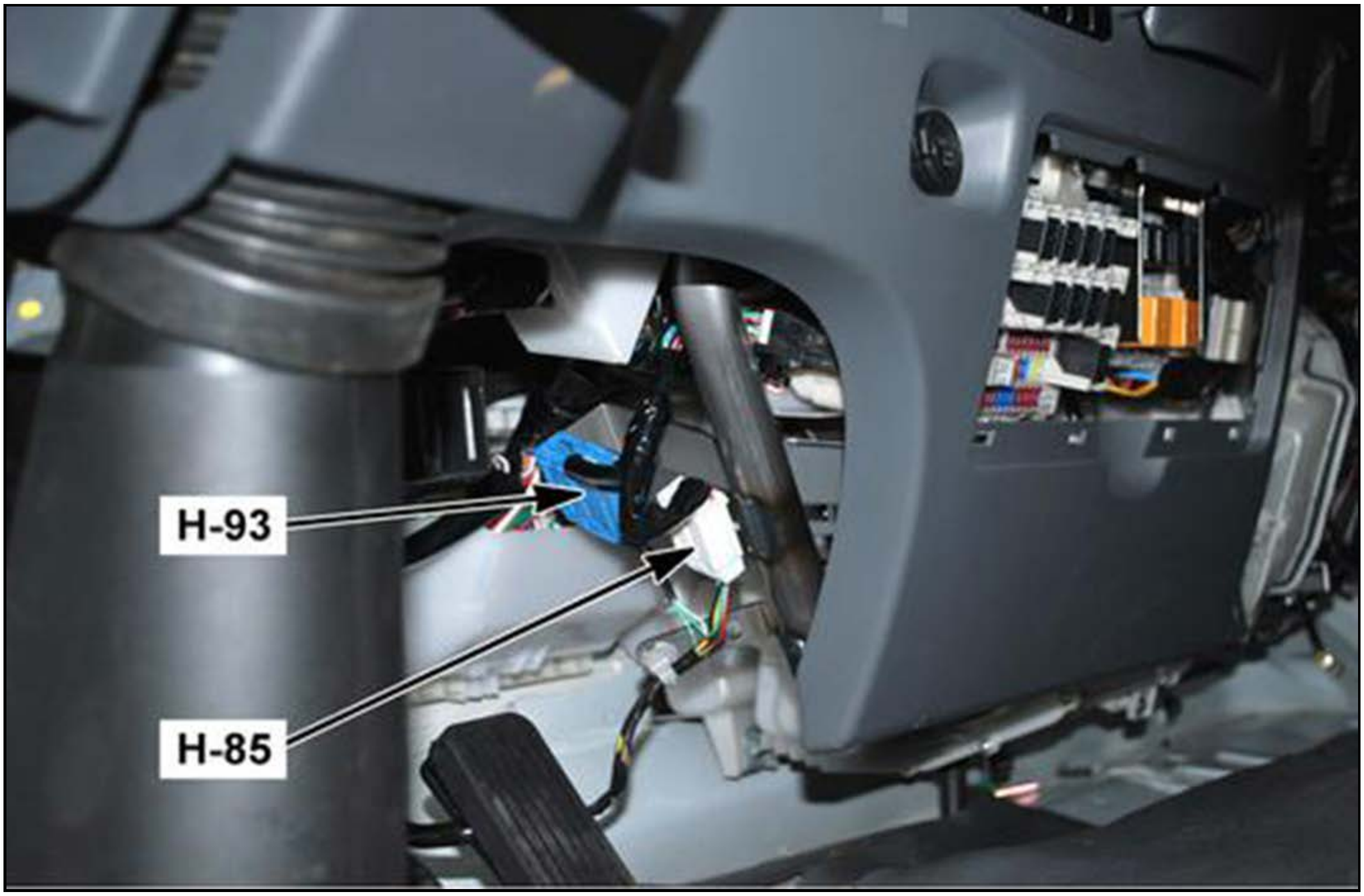
4891876

H-93 Floor Harness to I/P Harness



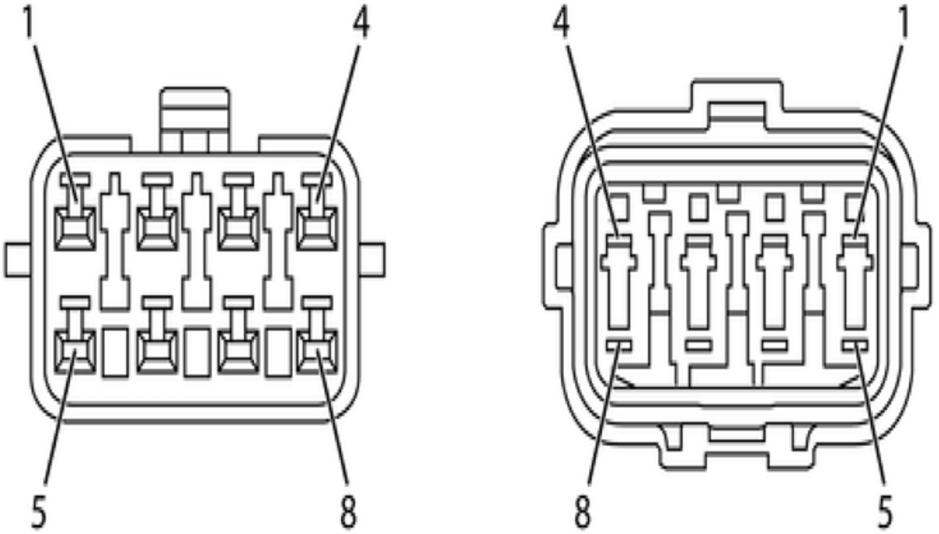
Connector Part Information	• 7323-8325-90 • 22-Way F (BLU)			Connector Part Information	• 7323-8325-90 • 22-Way M (BLU)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	LT GRN/RED	BA61	Fuse F-28 Voltage (Headlamp Switch ON) to Shift Lever	1	LT GRN/RED	BA061B	Fuse F-28 Voltage (Headlamp Switch ON) from J/B 1 (B-138 pin 17)
2	WHT/GRN	MA10	Seat Belt Indicator Control to IPC	2	WHT/GRN	MA010B	Seat Belt Indicator Control from Seat Belt Switch
3–21	—	—	Not Used	3–21	—	—	Not Used
22	LT GRN/BLK	BA64	Dimming Control to Shift Lever	22	LT GRN/BLK	BA063B	Dimming Control to Dimming Control Switch

Center of the I/P, Above the Accelerator Pedal



4891943

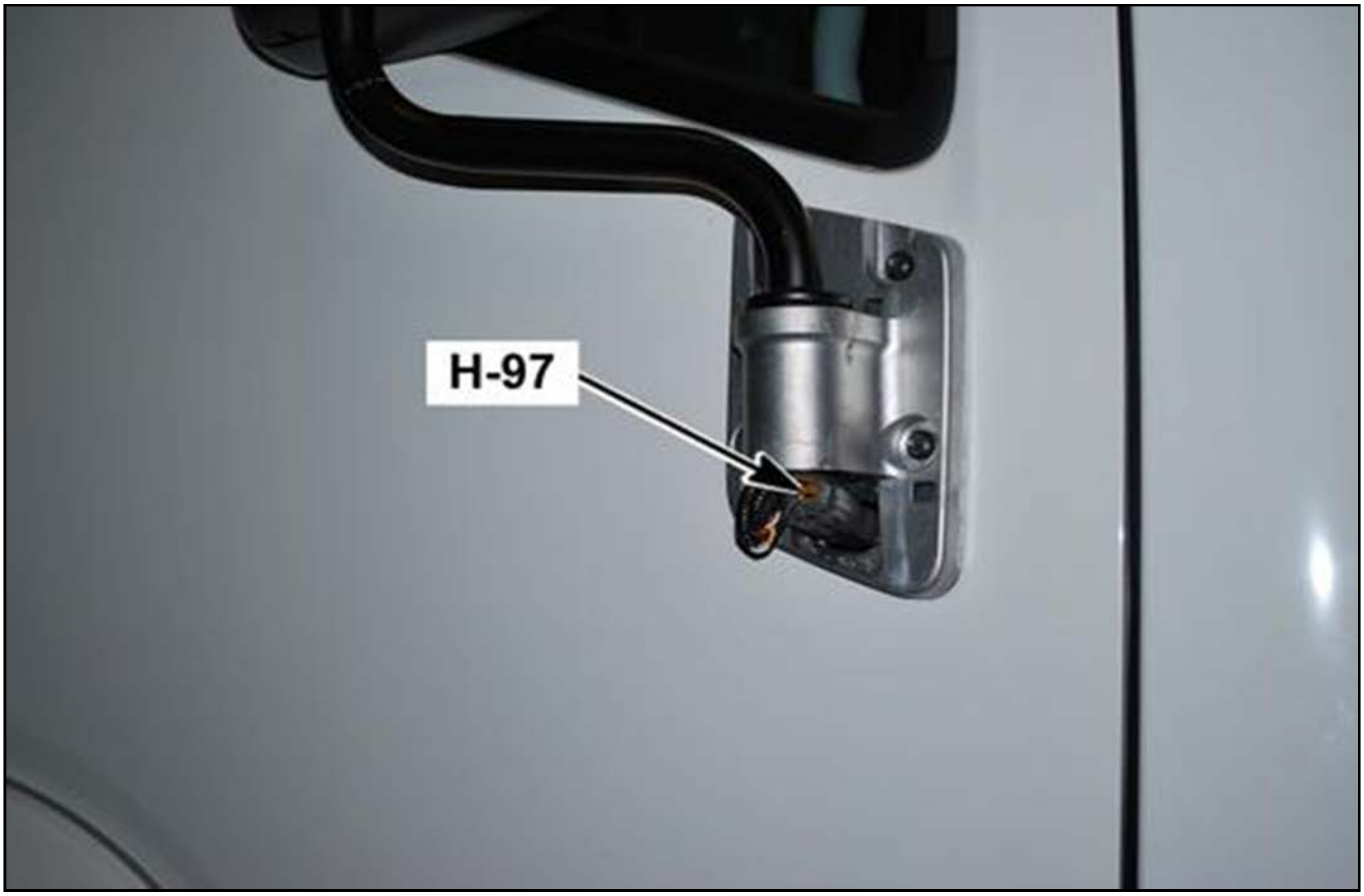
H-97 Mirror Harness to Door Harness (RH)



4891973

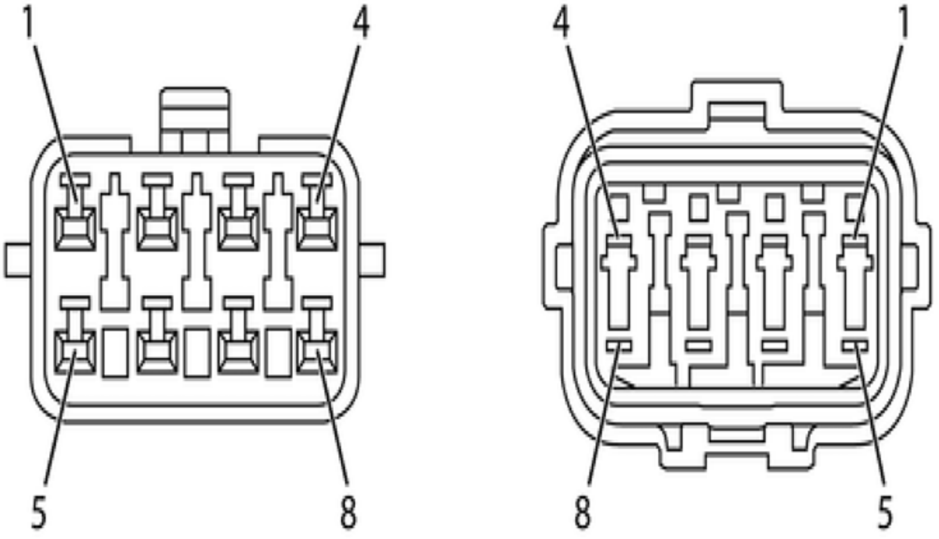
Connector Part Information	• 7323-7484-40 • 8-Way F (GRY)			Connector Part Information	• 7323-7484-40 • 8-Way M (GRY)		
Pin	Wire Color	Circuit No	Function	Pin	Wire Color	Circuit No	Function
1	RED/YEL	WA16	Mirror Heater Relay (RH) (Switched Output Voltage) to Lower Mirror Heater	1	RED/YEL	WA17	Mirror Heater Relay (RH) (Switched Output Voltage) to B-379 Splice Pack
2	YEL/RED	WA118B	Mirror Heater Relay (RH) (Switched Output Voltage) to Upper Mirror Heater	2	YEL/RED	WA19	Mirror Heater Relay (RH) (Switched Output Voltage) to B-379 Splice Pack
3	BLK	WX05	Ground to B-48 Junction Block (B-53 Ground) to Mirror (RH)	3	BLK	WX06	Ground to B-48 Junction Block (B-53 Ground)
4	BLK/RED	WX107	Ground to B-48 Junction Block (B-53 Ground) to Mirror (RH)	4	BLK	WX08	Ground to B-48 Junction Block (B-53 Ground)
5	WHT/BLK	WA08	Up/Down Mirror Control to Mirror	5	WHT/BLK	WA09	Up/Down Mirror Control to Power Mirror Switch
6	BLK/GRN	WA10	Left/Right Mirror Control to Mirror	6	BLK/GRN	WA11	Left/Right Mirror Control to Power Mirror Switch
7	BLK/WHT	WA12	Common Mirror Control to Mirror	7	BLK/WHT	WA13	Common Mirror Control to Power Mirror Switch
8	—	—	Not Used	8	—	—	Not Used

Right Front Door, Behind the Lower Mirror Arm Trim



4891974

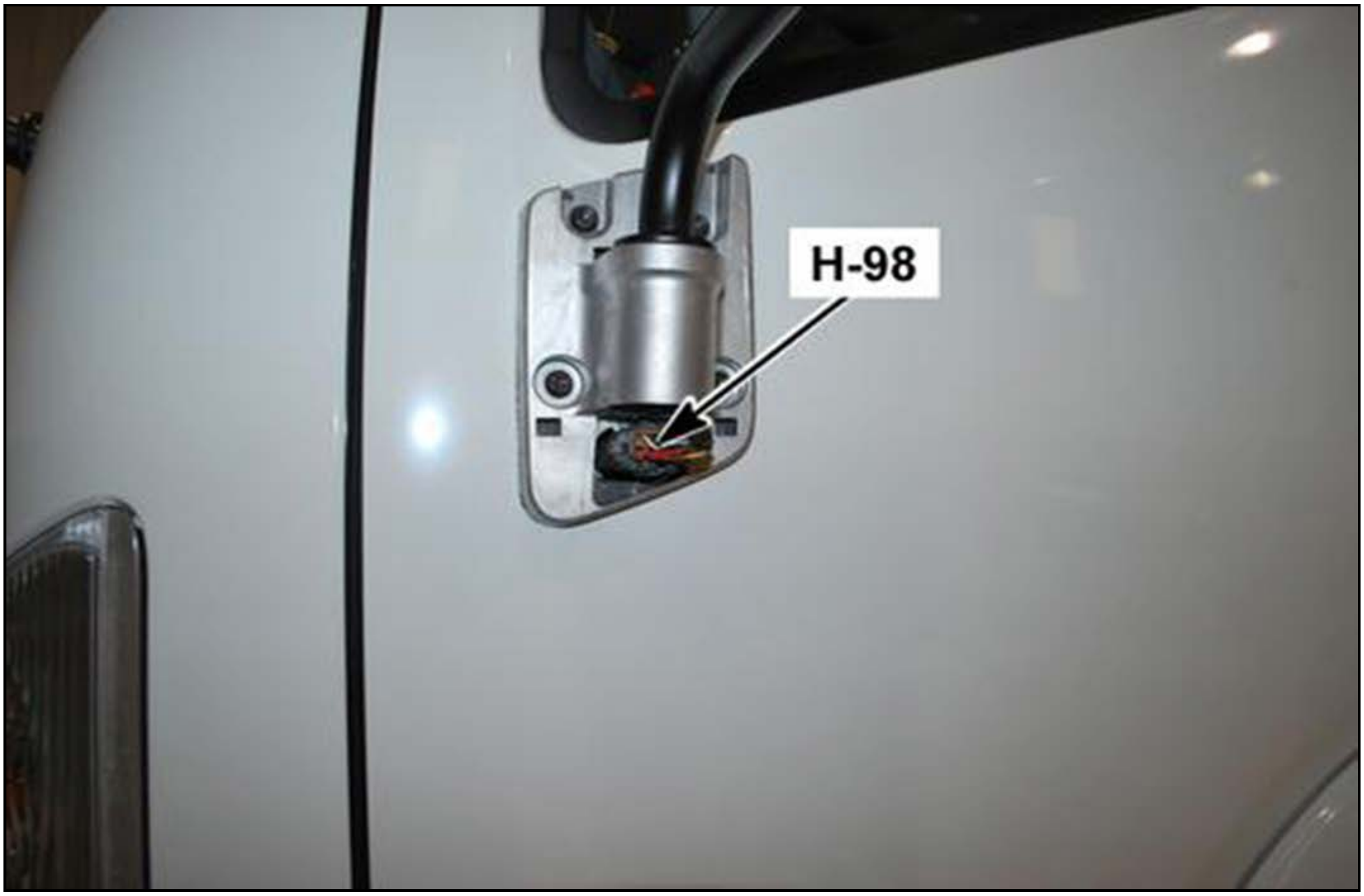
H-98 Mirror Harness to Door Harness (LH)



4891973

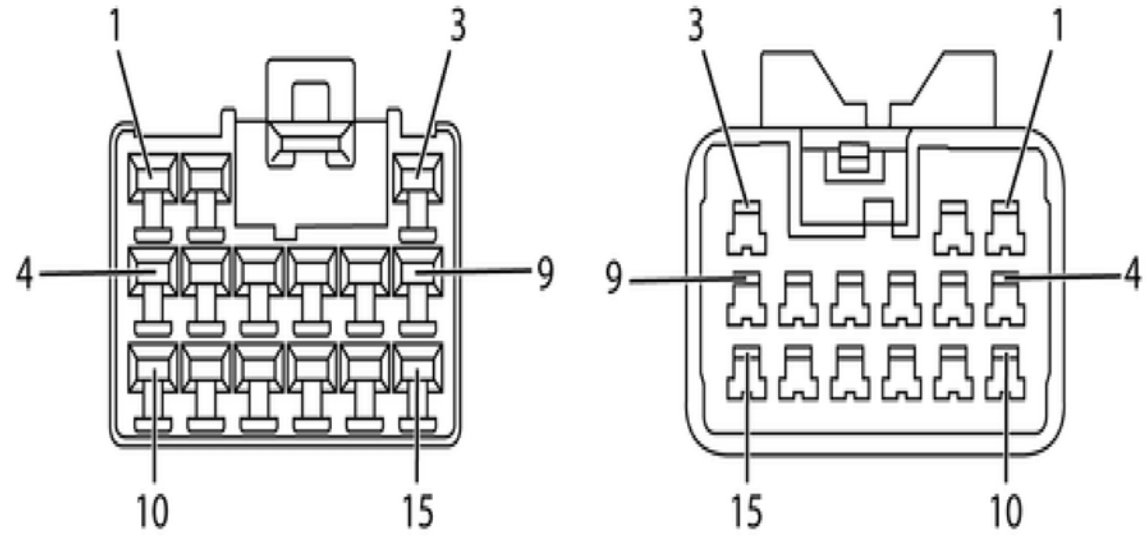
Connector Part Information	• 7323-7484-40 • 8-Way F (GRY)			Connector Part Information	• 7323-7484-40 • 8-Way M (GRY)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	RED/YEL	WA16	Mirror Heater Relay (LH) (Switched Output Voltage) to Splice Pack B-379	1	RED/YEL	WA16	Mirror Heater Relay (LH) (Switched Output Voltage) to Lower Mirror Heater
2	YEL/RED	WA118B	Mirror Heater Relay (LH) (Switched Output Voltage) to Splice Pack B-379	2	YEL/RED	WA118	Mirror Heater Relay (LH) (Switched Output Voltage) to Upper Mirror Heater
3	BLK	WX05	Ground to B-49 Junction Block (B-52 Ground) to Mirror (LH)	3	BLK	WX05	Ground to B-49 Junction Block (B-52 Ground)
4	BLK/RED	WX107	Ground to B-49 Junction Block (B-52 Ground) to Mirror (LH)	4	BLK	WX107	Ground to B-49 Junction Block (B-52 Ground)
5	WHT/BLK	WA08	Up/Down Control Mirror (LH) to Mirror	5	WHT/BLK	WA08	Up/Down Control Mirror (LH) to Power Mirror Switch
6	BLK/GRN	WA10	Left/Right Control Mirror (LH) to Mirror	6	BLK/GRN	WA10	Left/Right Control Mirror (LH) to Power Mirror Switch
7	BLK/WHT	WA12	Common Control for Mirror (LH) and Mirror (RH) to Mirror	7	BLK/WHT	WA12	Common Control for Mirror (LH) and Mirror (RH) to Power Mirror Switch
8	—	—	Not Used	8	—	—	Not Used

Left Front Door, Behind the Lower Mirror Arm Trim



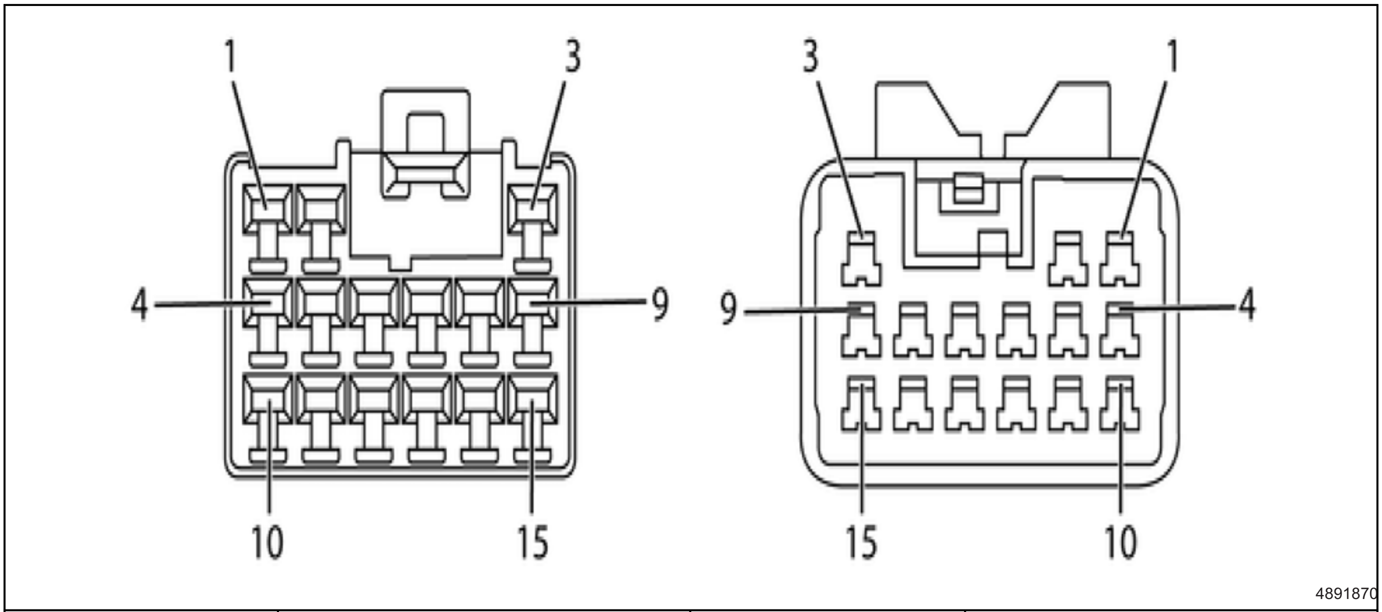
4891979

H-99 Front Chassis Harness to I/P Harness



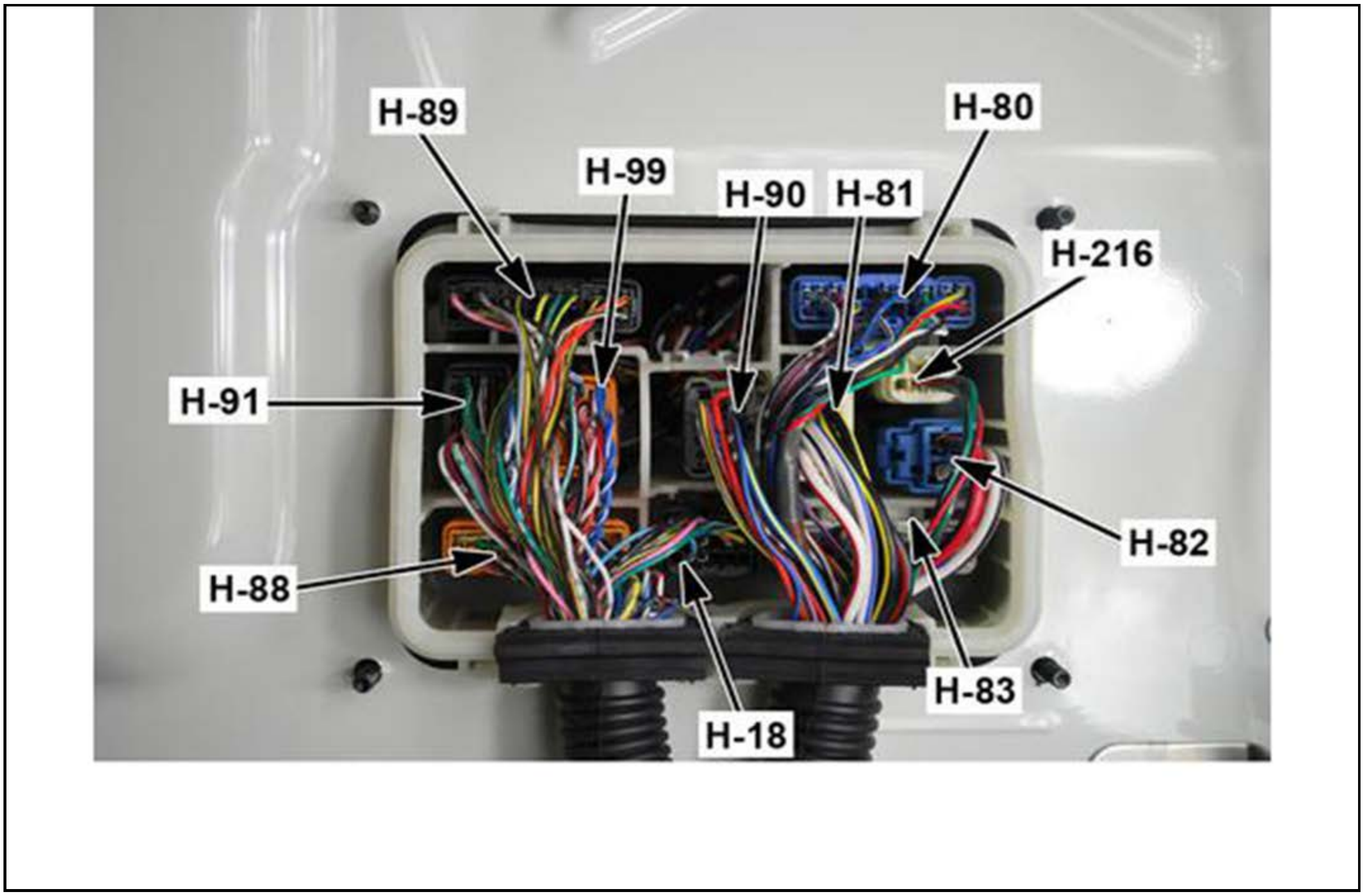
4891870

Connector Part Information	• 7383-1150-50 • 15-Way F (ORN)			Connector Part Information	• 7383-1150-50 • 15-Way M (ORN)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	GRN/WHT	BB103C	Left Front Pressure Modulator Valve Hold Control to Modulator	1	GRN/WHT	BB103B	Left Front Pressure Modulator Valve Hold Control to EBCM
2	BLK/RED	BB104C	Left Front Pressure Modulator Low Reference to Modulator	2	BLK/RED	BB104B	Left Front Pressure Modulator Low Reference to EBCM
3	RED	BB105C	Left Front Pressure Modulator Valve Release Control to Modulator	3	RED	BB105B	Left Front Pressure Modulator Valve Release Control to EBCM
4	WHT/BLU	BB106C	Left Front Wheel Speed Sensor Signal to Sensor	4	WHT/BLU	BB106B	Left Front Wheel Speed Sensor Signal to EBCM
5	BLK/BLU	BB107C	Left Front Wheel Speed Sensor 5 Volt Reference to Sensor	5	BLK/BLU	BB107B	Left Front Wheel Speed Sensor 5 Volt Reference to EBCM
6	WHT/RED	BB108C	Right Front Pressure Modulator Valve Hold Control to Modulator	6	WHT/RED	BB108B	Right Front Pressure Modulator Valve Hold Control to EBCM
7	RED/BLK	BB109C	Right Front Pressure Modulator Low Reference to Modulator	7	RED/BLK	BB109B	Right Front Pressure Modulator Low Reference to EBCM
8	WHT/BLK	BB110C	Right Front Pressure Modulator Valve Release Control to Modulator	8	WHT/BLK	BB110B	Right Front Pressure Modulator Valve Release Control to EBCM
9	BLU/WHT	BB111C	Right Front Wheel Speed Sensor Signal to Sensor	9	BLU/WHT	BB111B	Right Front Wheel Speed Sensor Signal to EBCM
10	BLU	BB112C	Right Front Wheel Speed Sensor 5 Volt Reference to Sensor	10	BLU	BB112B	Right Front Wheel Speed Sensor 5 Volt Reference to EBCM



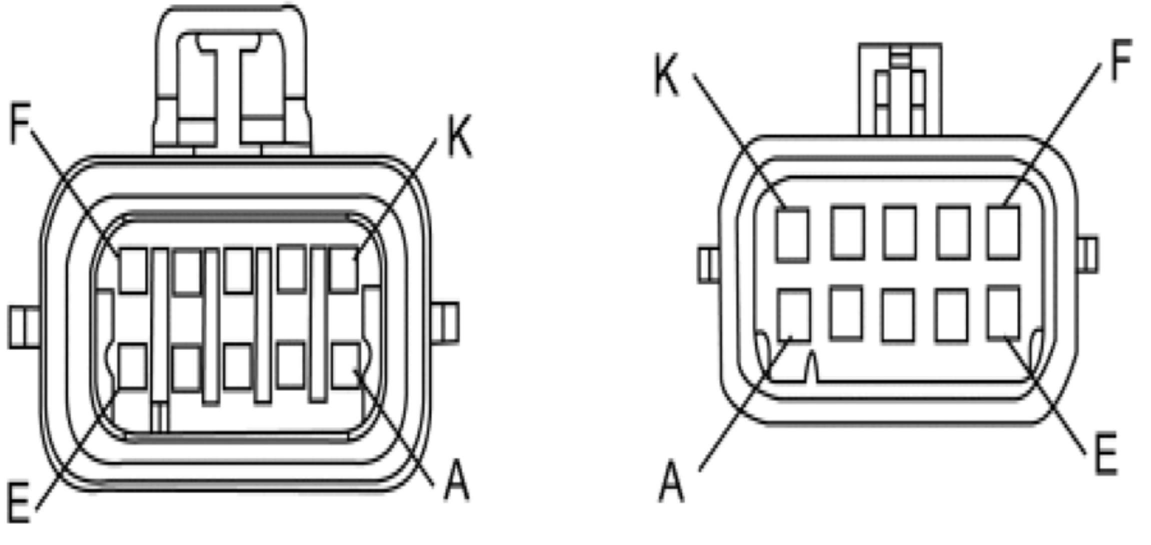
Connector Part Information	- 7383-1150-50 - 15-Way F (ORN)			Connector Part Information	- 7383-1150-50 - 15-Way M (ORN)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
11	WHT/BLU	BB113C	Left Rear Pressure Modulator Valve Hold Control to Modulator	11	WH/BLU	BB113B	Left Rear Pressure Modulator Valve Hold Control to EBCM
12	BLK/WHT	BB114C	Left Rear Pressure Modulator Low Reference to Modulator	12	BLK/WHT	BB114B	Left Rear Pressure Modulator Low Reference to EBCM
13	RED/BLU	BB115C	Left Rear Pressure Modulator Valve Release Control to Modulator	13	RED/BLU	BB115B	Left Rear Pressure Modulator Valve Release Control to EBCM
14	WHT/RED	BB116C	Left Rear Wheel Speed Sensor 5 Volt Reference to Sensor	14	WHT/RED	BB116B	Left Rear Wheel Speed Sensor 5 Volt Reference to EBCM
15	ORN/BLK	BB117C	Left Rear Wheel Speed Sensor Signal to Sensor	15	ORN/BLK	BB117B	Left Rear Wheel Speed Sensor Signal to EBCM

Front of the Cab, Behind the Washer Fluid Reservoir


H-89
H-99
H-90
H-81
H-80
H-216
H-91
H-82
H-88
H-83
H-18

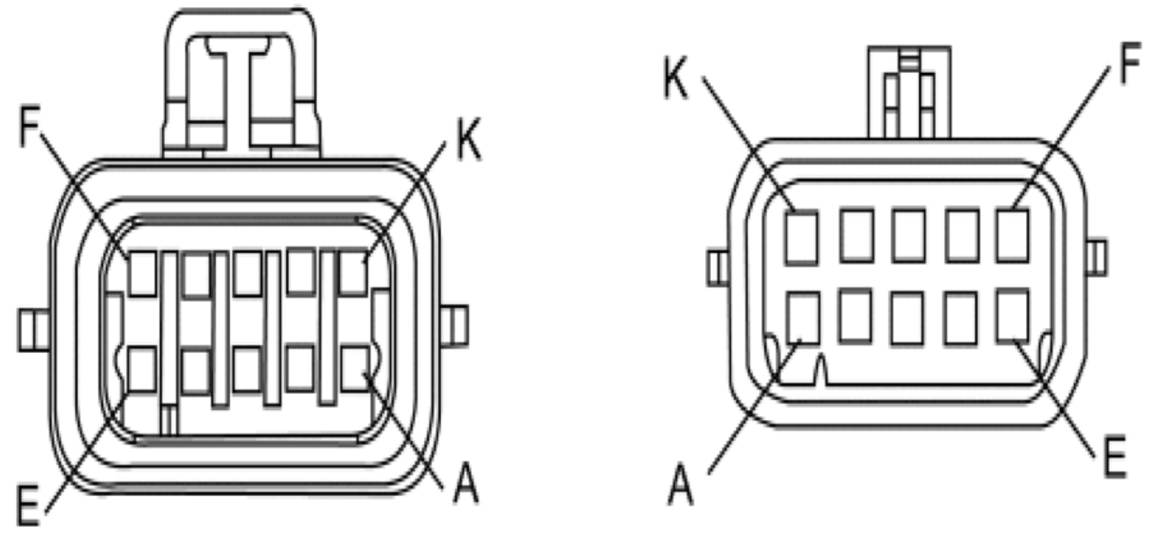
4891871

H-104 Rear Frame Harness to the PTO Harness



4891984

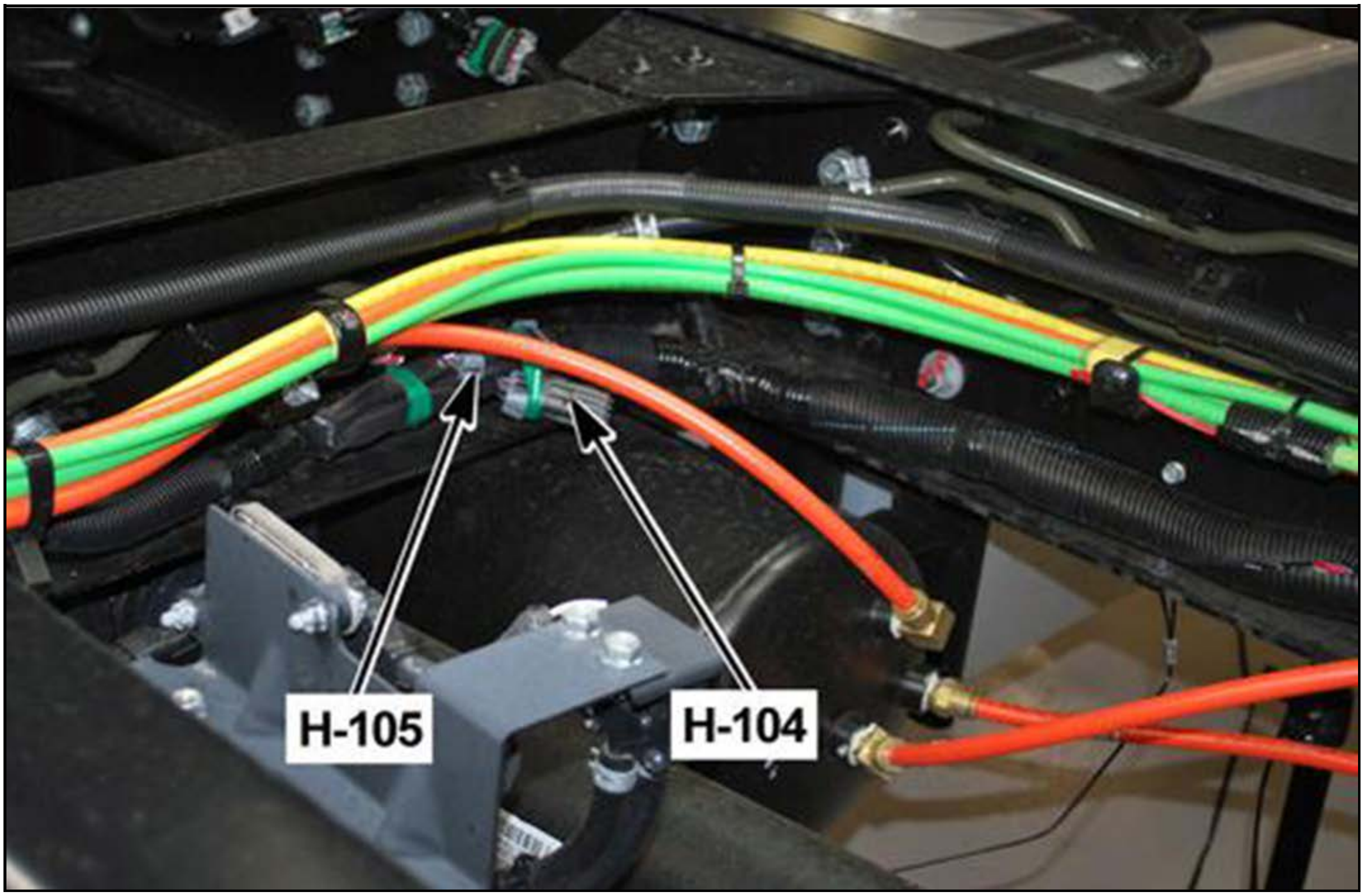
Connector Part Information	• 12065425 • 10-Way F (BLK)			Connector Part Information	• 12045808 • 10-Way M (BLK) • Body Builder Installed		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
A	RED/BLK	IC180C	Ignition Voltage from Fuse F-18	A	—	—	—



4891984

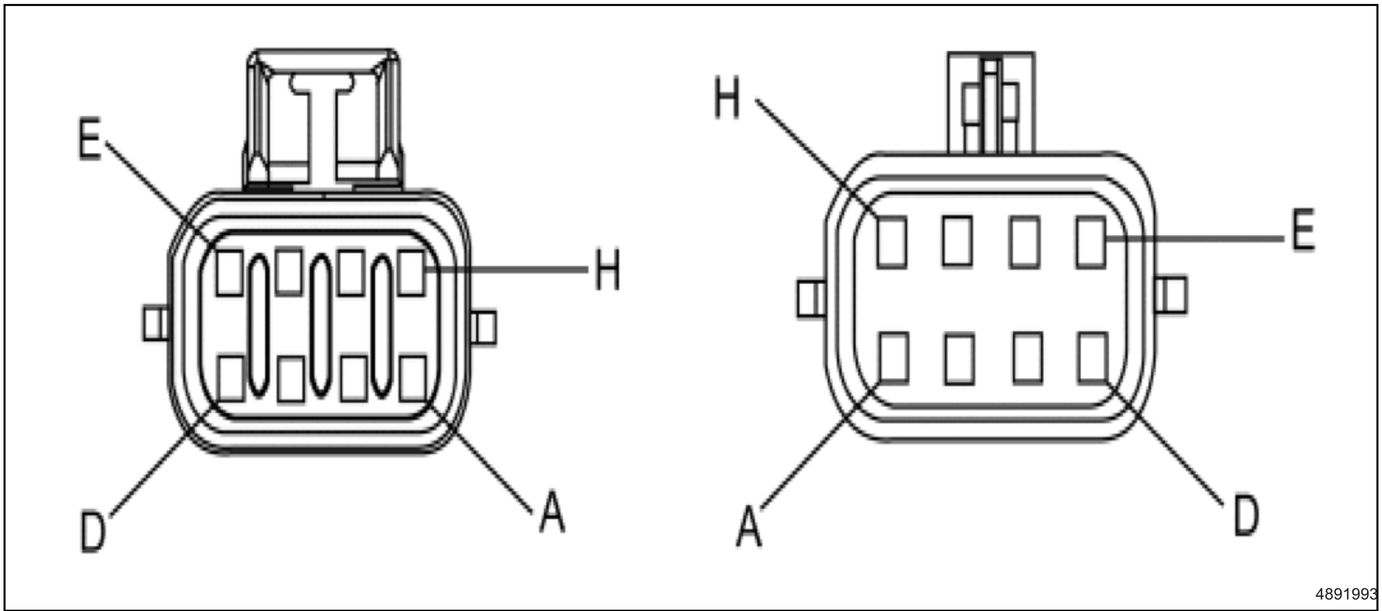
Connector Part Information		• 12065425 • 10-Way F (BLK)		Connector Part Information		• 12045808 • 10-Way M (BLK) • Body Builder Installed	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
B	RED/GRN	IC168C	PTO Brake/Clutch Override Switch Signal	B	—	—	—
C	RED/BLU	IC166C	Remote PTO Set Speed B Switch Signal	C	—	—	—
D	GRY/RED	IC165C	Remote PTO Set Speed A Switch Signal	D	—	—	—
E	BRN	IC167C	PTO Cab Control Disable Switch Signal	E	—	—	—
F	PNK/BLK	IC169C	PTO Shut Down Switch Signal	F	—	—	—
G	WHT	WB051C	PTO Switch Signal to TCM	G	—	—	—
H	BLK	IZ007C	Ground to Splice 5 (J-7 and J-9)	H	—	—	—
J	RED/GRN	IC171C	Remote PTO Set Switch Signal	J	—	—	—
K	RED/BLK	IC170C	Remote PTO Resume Switch Signal	K	—	—	—

Between the Frame Rails on the Crossmember, Next to the Diesel Particulate Filter (DPF)



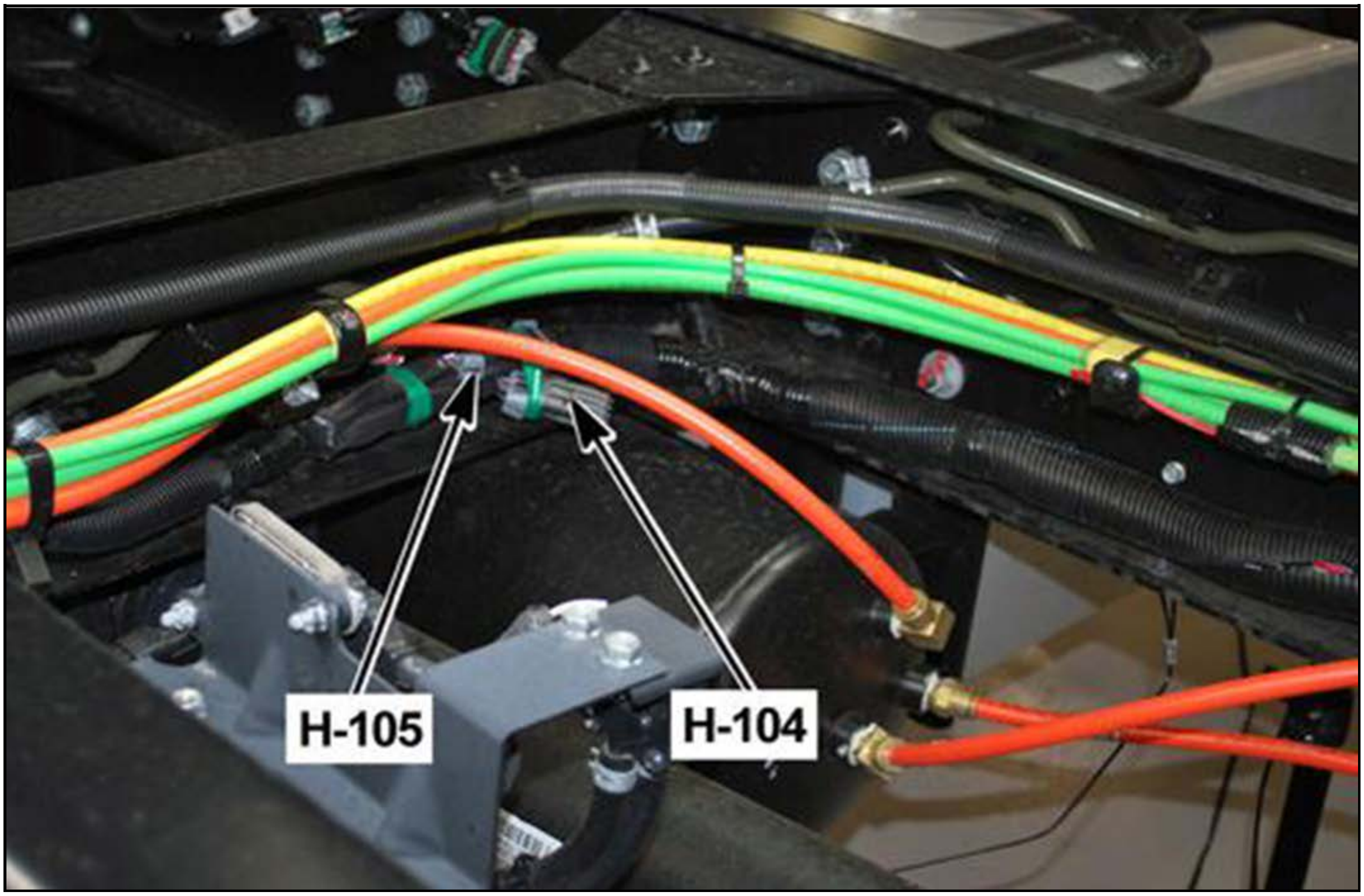
4891986

H-105 Rear Frame Harness to the PTO Harness



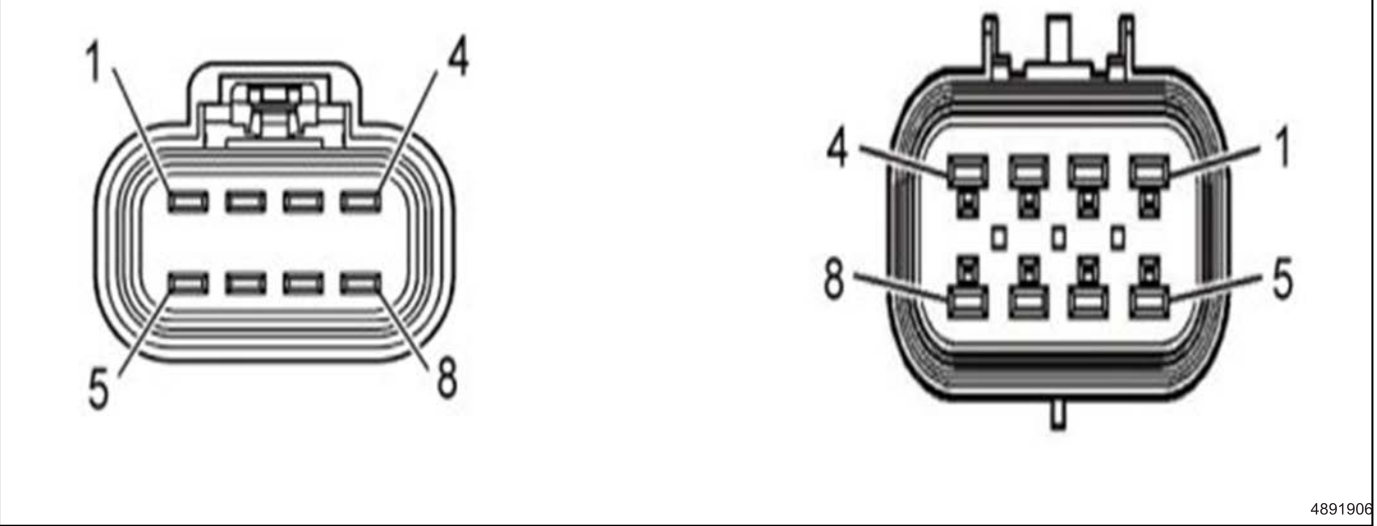
Connector Part Information			- 12047937 - 8-Way F (BLK)	Connector Part Information			- 12047937 - 8-Way M (BLK) - Body Builder Installed
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
A	BLK/WHT	IC172C	PTO Enable Relay Signal	A	—	—	—
B	PNK/GRN	IC173C	PTO Enable Relay Control	B	—	—	—
C	PNK	IC181C	PTO Engage Switch Signal	C	—	—	—
D	BLU/YEL	IC188C	Remote PTO Set Switch	D	—	—	—
E	BLU	IC037C	PTO Throttle Sensor Reference Voltage	E	—	—	—
F	YEL	IC038C	PTO Throttle Sensor Signal	F	—	—	—
G	BLU/RED	IC039C	PTO Throttle Sensor Low Reference	G	—	—	—
H	BLU/ORN	IC187C	Remote PTO Resume Switch	H	—	—	—

Between the Frame Rails on the Crossmember, Next to the Diesel Particulate Filter (DPF)



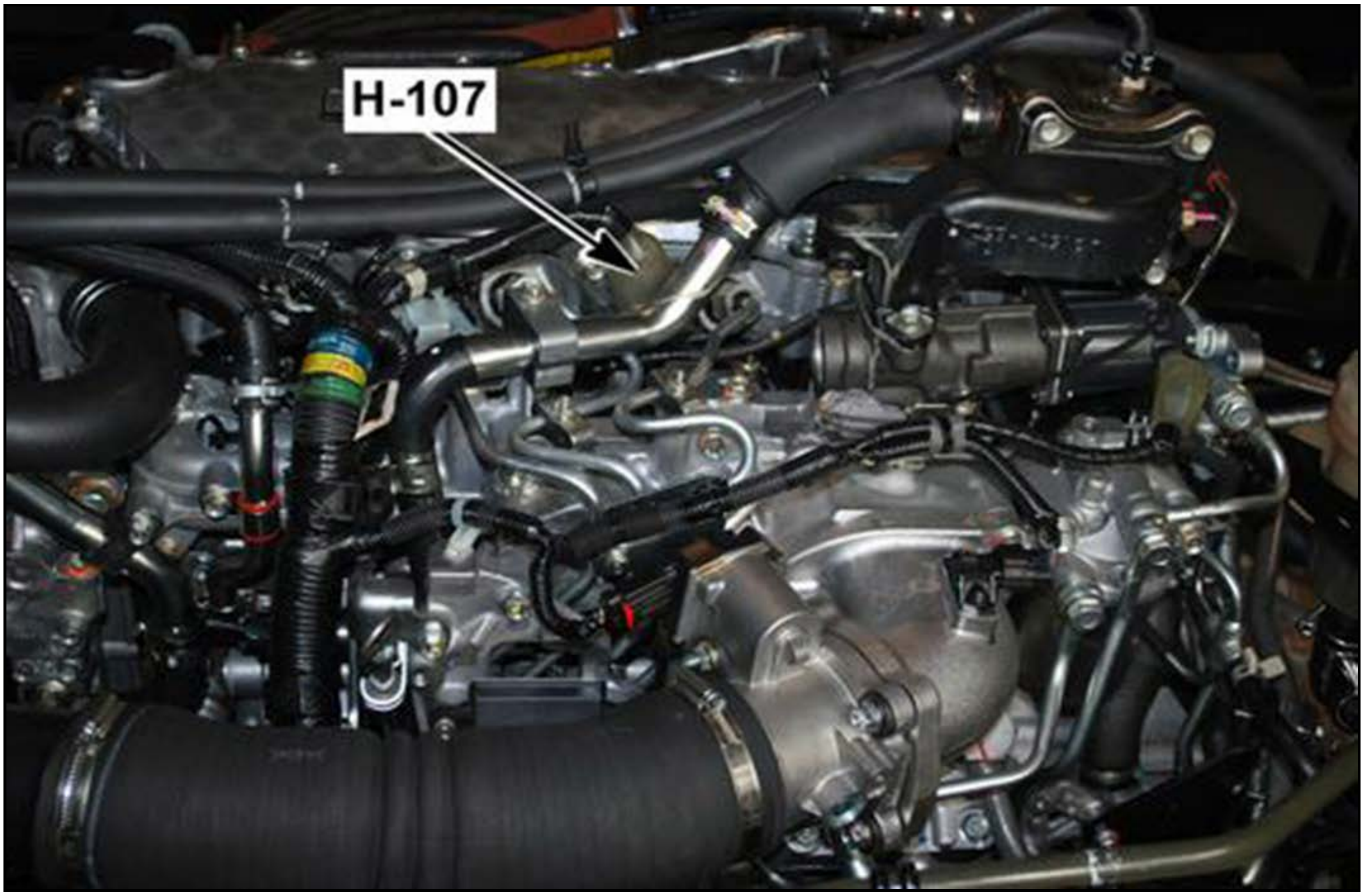
4891986

H-107 Engine Harness to Cylinder Head Pass-Through



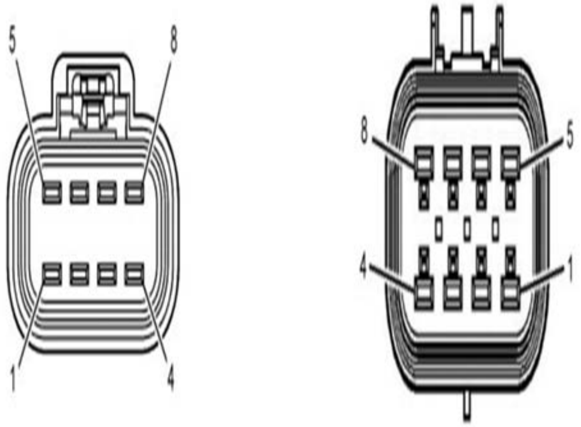
Connector Part Information		• 7283-1364-40 • 8-Way F (BRN)		Connector Part Information		• Cylinder Head Pass Through	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	WHT/RED	IC97	#1 & 4 Injector Voltage	1	—	—	#1 & 4 Injector Voltage
2	RED/WHT	IC149	#2 & 3 Injector Voltage	2	—	—	#2 & 3 Injector Voltage
3	VIO	IC503	#2 & 3 Injector Voltage	3	—	—	#2 & 3 Injector Voltage
4	LT GRN	IC502	#1 & 4 Injector Voltage	4	—	—	#1 & 4 Injector Voltage
5	GRN/RED	IC151	#1 Injector Control	5	—	—	#1 Injector Control
6	GRN/BLK	IC105	#2 Injector Control	6	—	—	#2 Injector Control
7	BLK/YEL	IC104	#3 Injector Control	7	—	—	#3 Injector Control
8	WHT/VIO	IC152	#4 Injector Control	8	—	—	#4 Injector Control

On the Upper Left Side of the Cylinder Head Between Injector 2 and 3



4891999

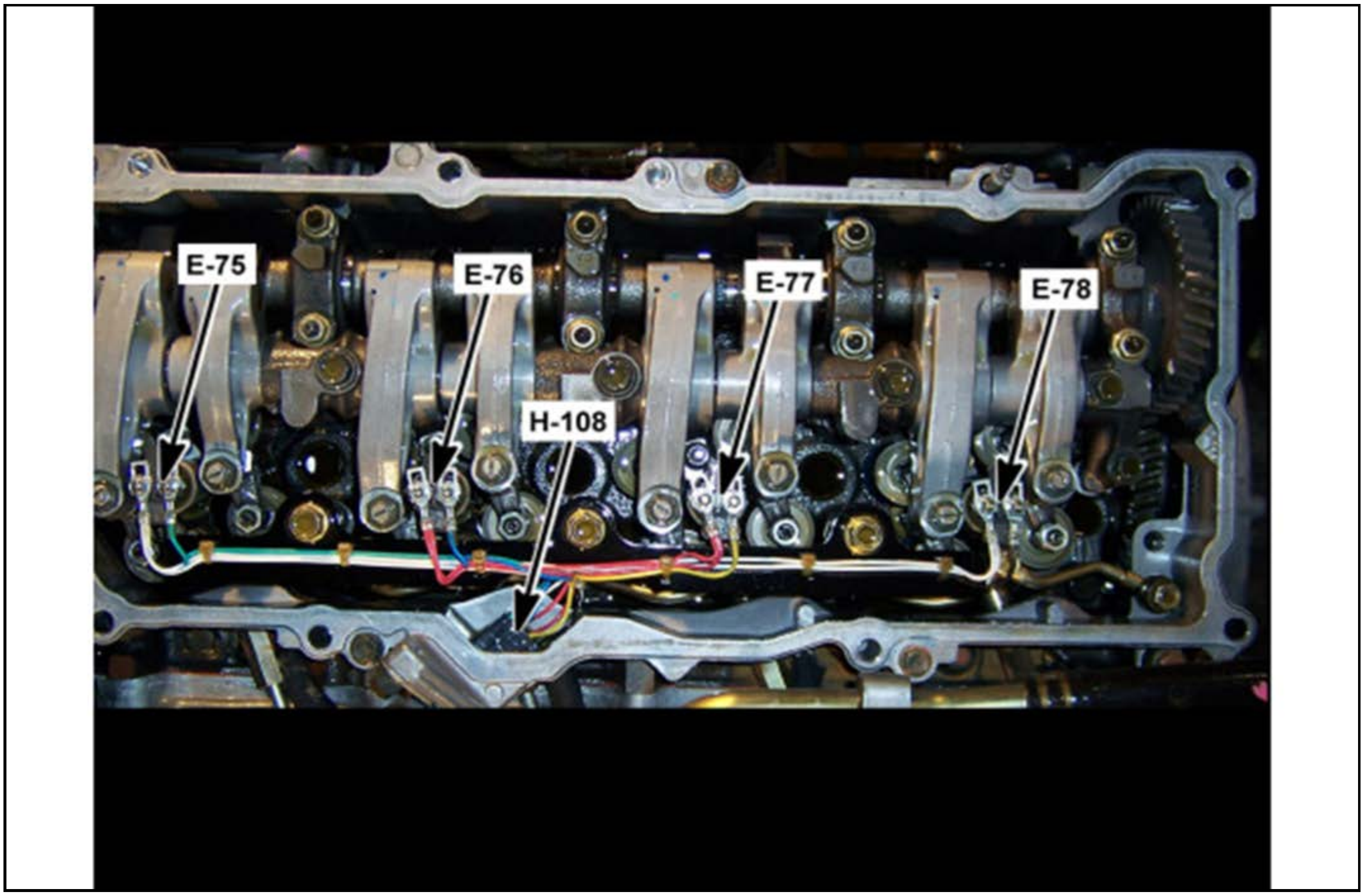
H-108 Engine Harness to the Engine/Injector Harness Connector



4892003

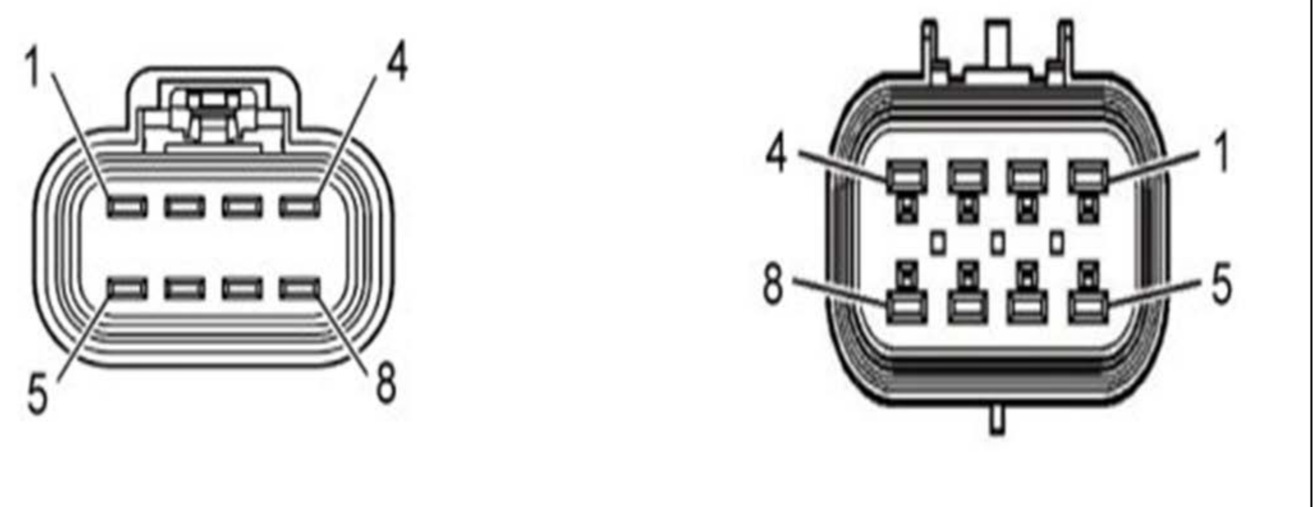
Connector Part Information	• 894391-4761 • 8-Way F (DK GRY)			Connector Part Information	• Cylinder Head Pass Through		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	WHT	2	#1 Injector Voltage	1	—	—	#1 Injector Voltage
2	RED	5	#2 Injector Voltage	2	—	—	#2 Injector Voltage
3	RED	7	#3 Injector Voltage	3	—	—	#3 Injector Voltage
4	WHT	9	#4 Injector Voltage	4	—	—	#4 Injector Voltage
5	GRN	3	#1 Injector Control	5	—	—	#1 Injector Voltage
6	BLU	6	#2 Injector Control	6	—	—	#2 Injector Voltage
7	YEL	8	#3 Injector Control	7	—	—	#3 Injector Voltage
8	BLK	10	#4 Injector Control	8	—	—	#4 Injector Voltage

On the Upper Left Side of the Cylinder Head Between Injector 2 and 3


E-75
E-76
E-77
E-78
H-108

4891806

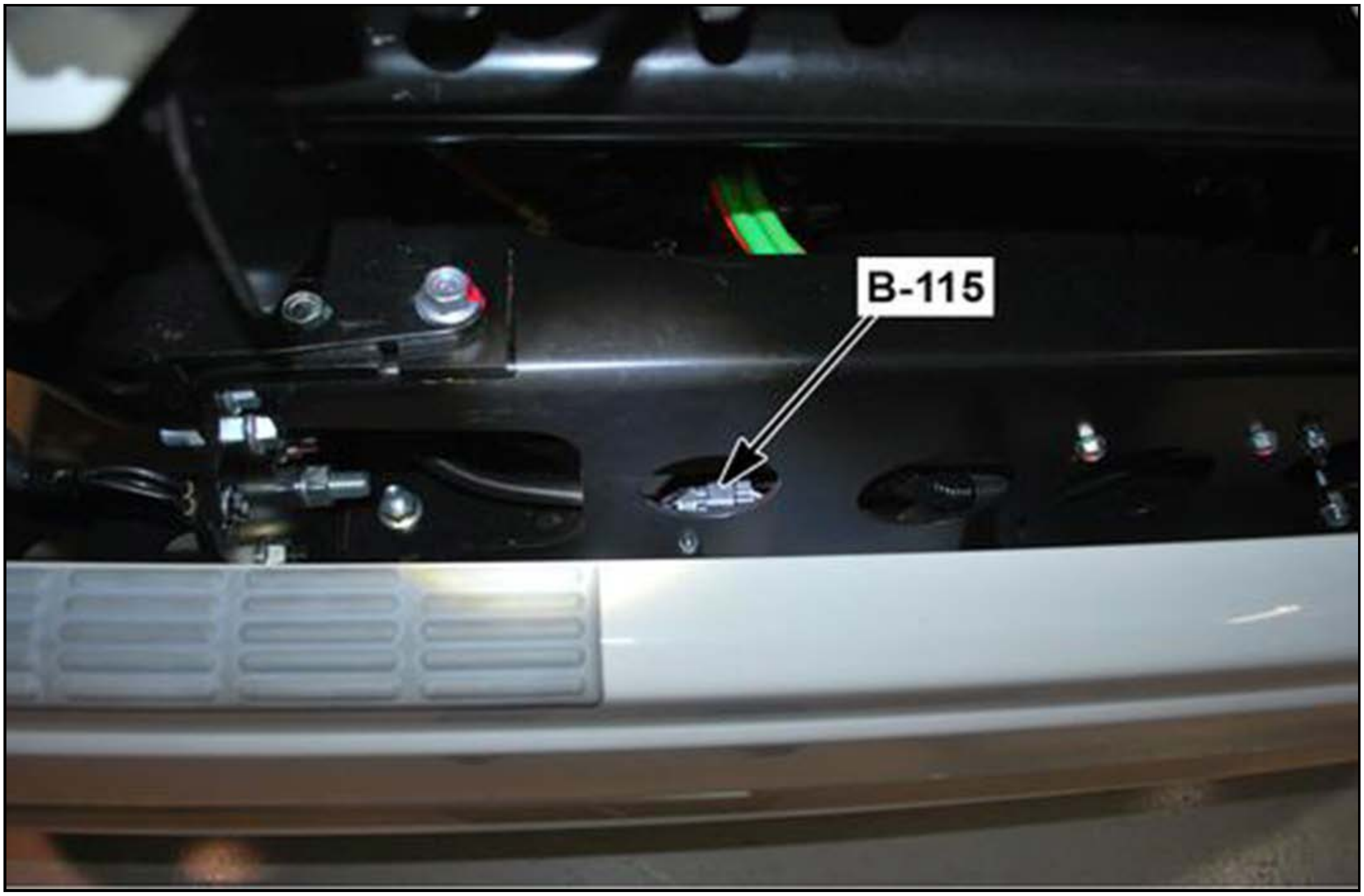
H-115 Front Chassis Harness to Front Chassis Extension Harness



4891906

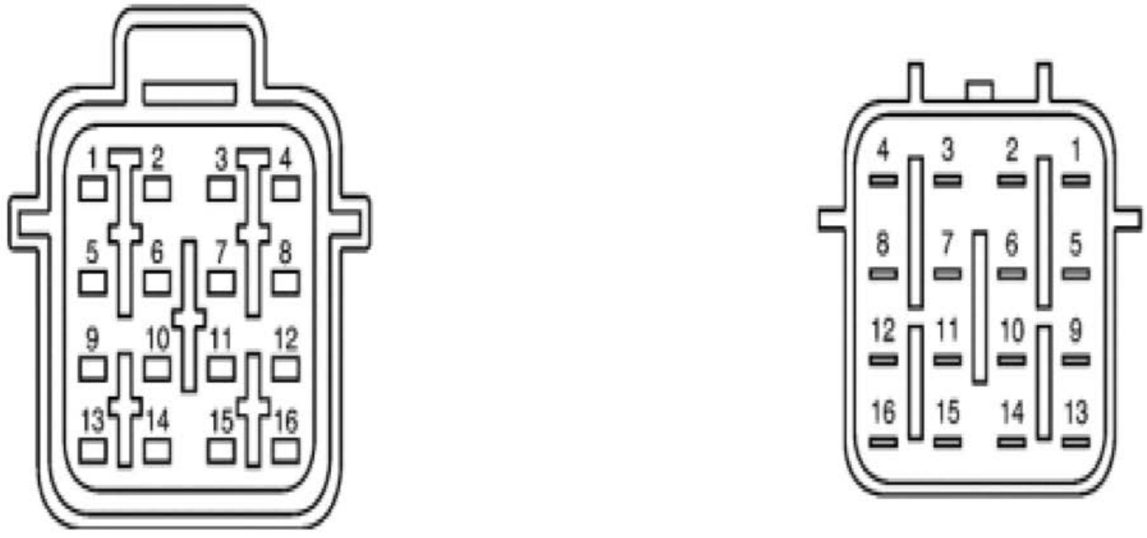
Connector Part Information	• X010369 • 8-Way F (BLK)			Connector Part Information	• X010371 • 8-Way M (BLK)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	GRN/WHT	BB103C	Left Front Pressure Modulator Valve Hold Control to EBCM	1	GRN/WHT	BB103L	Left Front Pressure Modulator Valve Hold Control to Modulator
2	BLK/RED	BB104C	Left Front Pressure Modulator Low Reference to EBCM	2	BLK/RED	BB104L	Left Front Pressure Modulator Low Reference to Modulator
3	RED	BB105C	Left Front Pressure Modulator Valve Release Control to EBCM	3	RED	BB105L	Left Front Pressure Modulator Valve Release Control to Modulator
4	WHT/RED	BB108C	Right Front Pressure Modulator Valve Hold Control to EBCM	4	WHT/RED	BB108L	Right Front Pressure Modulator Valve Hold Control to Modulator
5	RED/BLK	BB109C	Right Front Pressure Modulator Low Reference to EBCM	5	PNK/BLK	BB109L	Right Front Pressure Modulator Low Reference to Modulator
6	WHT/BLK	BB110C	Right Front Pressure Modulator Valve Release Control to EBCM	6	WHT/BLK	BB110L	Right Front Pressure Modulator Valve Release Control to Modulator
7	BLU/WHT	BB111C	Right Front Wheel Speed Sensor Signal to Sensor	7	BLU/WHT	BB111L	Right Front Wheel Speed Sensor Signal to EBCM
8	BLU	BB112C	Right Front Wheel Speed Sensor 5 Volt Reference to Sensor	8	BLU	BB112L	Right Front Wheel Speed Sensor 5 Volt Reference to EBCM

Right Front Frame Area, Behind the Front Bumper



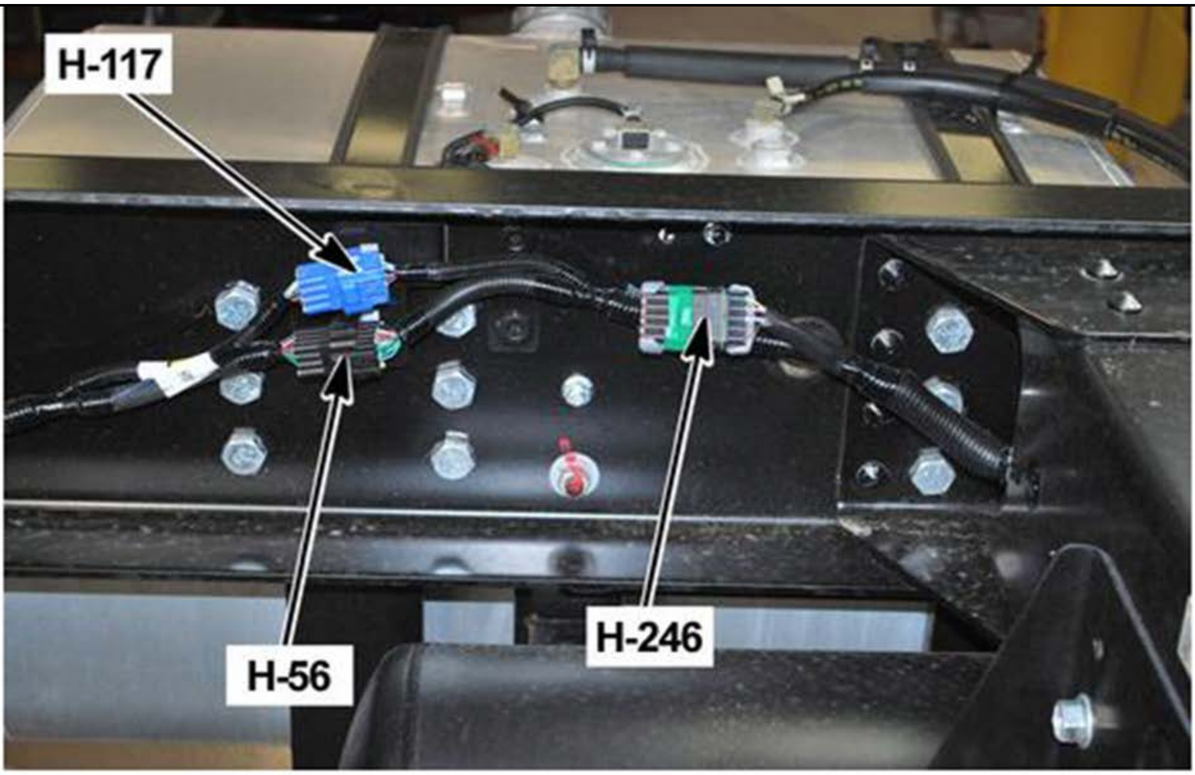
4892005

H-117 Front Chassis Harness to Rear Chassis Harness



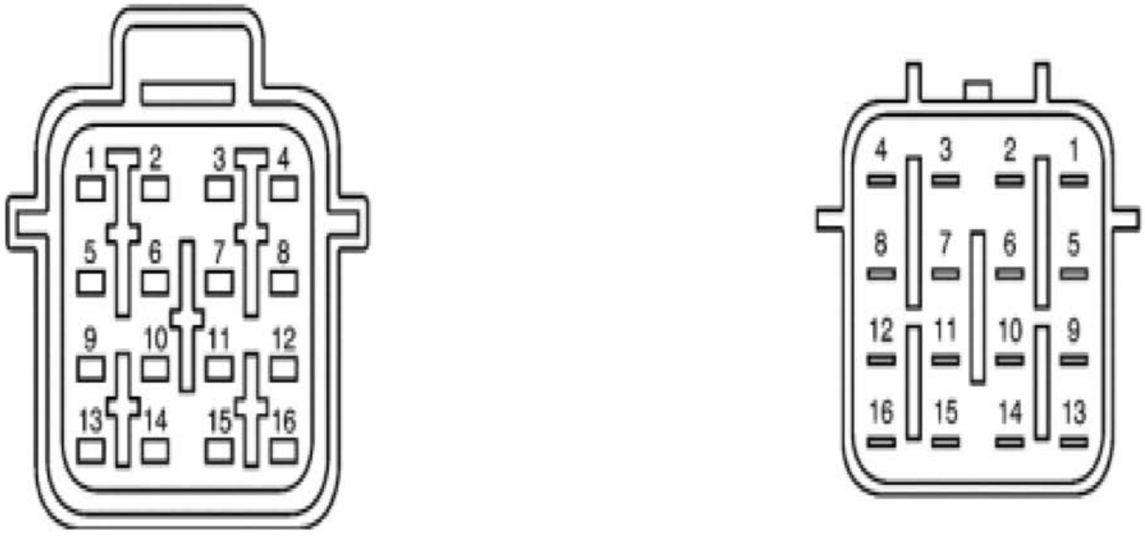
Connector Part Information		• X010419 • 16-Way F (BLU)		Connector Part Information		• X010424 • 16-Way M (BLU)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	WHT/BLU	BB113C	Left Rear Pressure Modulator Valve Hold Control to EBCM	1	WHT/BLU	BB113D	Left Rear Pressure Modulator Valve Hold Control to Modulator
2	BLK/WHT	BB114C	Left Rear Pressure Modulator Common (Low Reference) to EBCM	2	BLK/WHT	BB114D	Left Rear Pressure Modulator Common (Low Reference) to Modulator
3	RED/BLU	BB115C	Left Rear Pressure Modulator Valve Release Control to EBCM	3	RED/BLU	BB115D	Left Rear Pressure Modulator Valve Release Control to Modulator
4	—	—	Not Used	4	—	—	Not Used
5	WHT/GRN	BB118C	Right Rear Pressure Modulator Valve Hold Control to EBCM	5	WHT/GRN	BB118D	Right Rear Pressure Modulator Valve Hold Control to Modulator
6	BLK/ORN	BB119C	Right Rear Pressure Modulator Common (Low Reference) to EBCM	6	BLK/ORN	BB119D	Right Rear Pressure Modulator Common (Low Reference) to Modulator
7	RED/GRN	BB120C	Left Rear Pressure Modulator Valve Release Control to EBCM	7	RED/GRN	BB120D	Left Rear Pressure Modulator Valve Release Control to Modulator
8–16	—	—	Not Used	8–16	—	—	Not Used

Left Inner Frame Rail, Next to the Fuel Tank



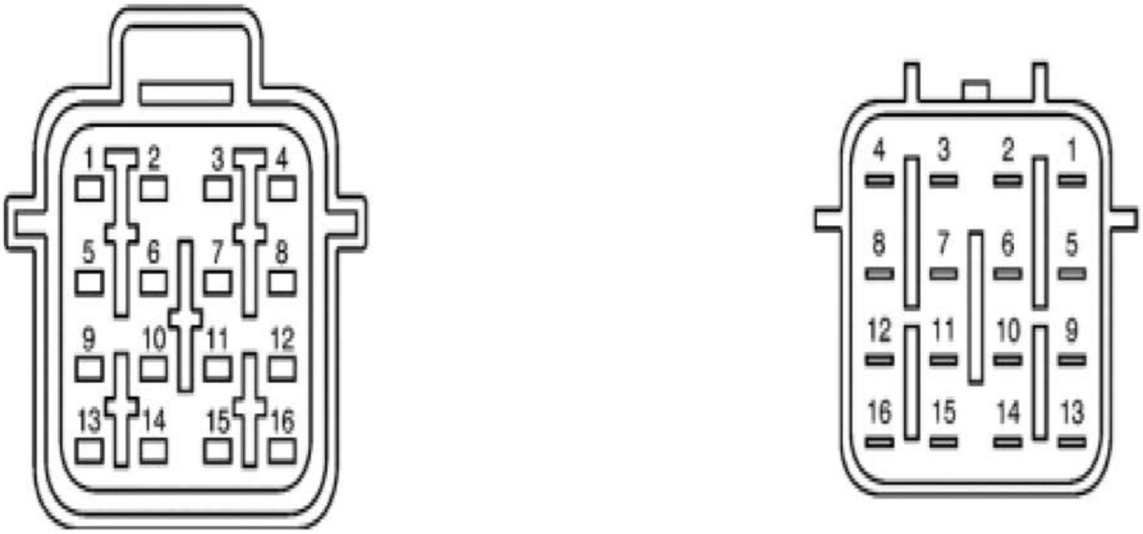
4891901

H-171 Front Chassis Harness to DEF Supply Module and DEF Level Sensor



4891890

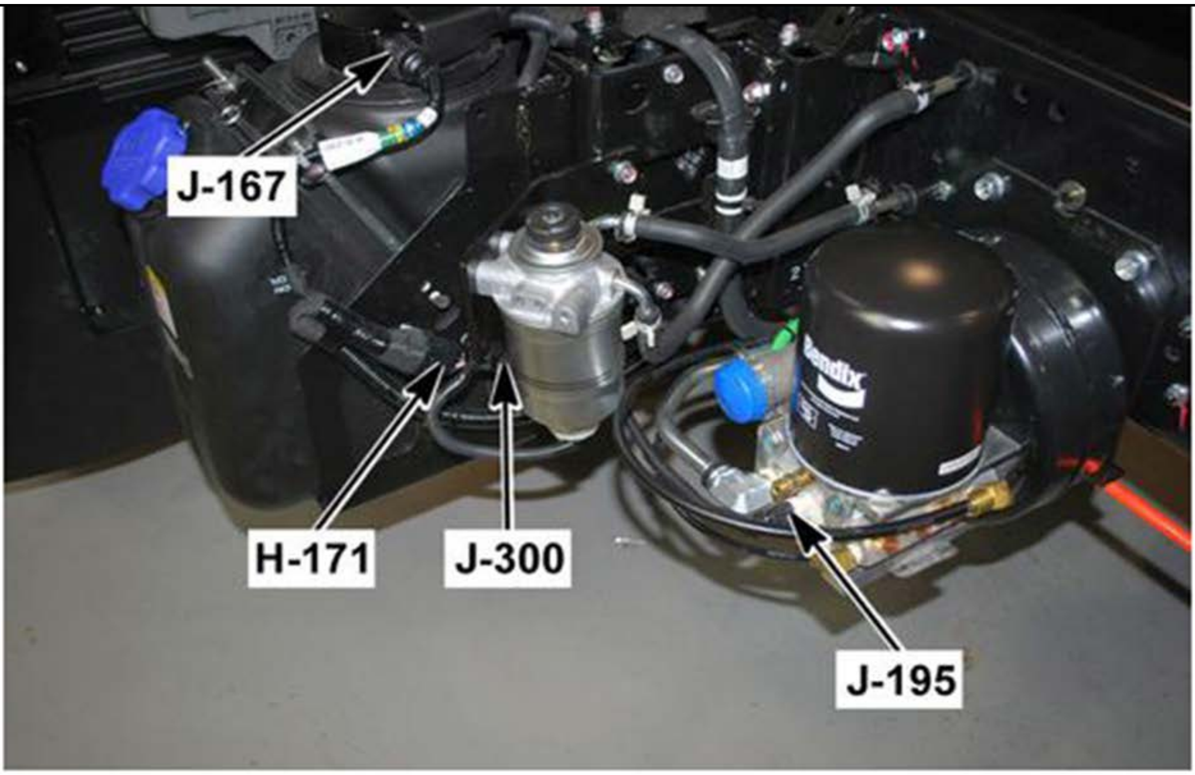
Connector Part Information	• X010418 • 16-Way F (BLK)			Connector Part Information	• X010423 • 16-Way M (BLK)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	RED/BLU	FG25	Diesel Exhaust Fluid (DEF) Fluid Supply Pump Motor Voltage to DEF Pump	1	RED/BLU	FG025C	Diesel Exhaust Fluid (DEF) Fluid Supply Pump Motor Voltage to DEF Module
2	WHT/BLK	FG26	DEF Fluid Supply Pump Motor Low Reference to DEF Pump	2	WHT/BLK	FG026C	DEF Fluid Supply Pump Motor Low Reference to DEF Module
3	GRY	FG27	DEF Fluid Supply Pump Motor Control to DEF Pump	3	GRY	FG027C	DEF Fluid Supply Pump Motor Control to DEF Module
4	RED	FG28	DEF Fluid Supply Pump Reverting Valve Voltage to DEF Pump	4	RED	FG028C	DEF Fluid Supply Pump Reverting Valve Voltage to DEF Module
5	LT GRN	FG29	DEF Fluid Supply Pump Reverting Valve Control to DEF Pump	5	LT GRN	FG029C	DEF Fluid Supply Pump Reverting Valve Control to DEF Module
6	WHT/BLU	FG30	DEF Fluid Supply Pump Pressure Sensor Low Reference to DEF Pump	6	WHT/BLU	FG030C	DEF Fluid Supply Pump Pressure Sensor Low Reference to DEF Module
7	VIO/YEL	FG31	DEF Fluid Supply Pump Pressure Sensor 5V to DEF Pump	7	VIO/YEL	FG031C	DEF Fluid Supply Pump Pressure Sensor 5V to DEF Module
8	PNK	FG32	DEF Fluid Supply Pump Pressure Sensor Signal to DEF Pump	8	PNK	FG032C	DEF Fluid Supply Pump Pressure Sensor Signal to DEF Module
9	BLU/WHT	TF301	CAN 3 Low to Diesel Exhaust Fluid (DEF) Tank & Level sensor, DEF Control Module	9	BLU/WHT	TF301C	CAN 3 Low to NOx Sensors 1 and 2



4891890

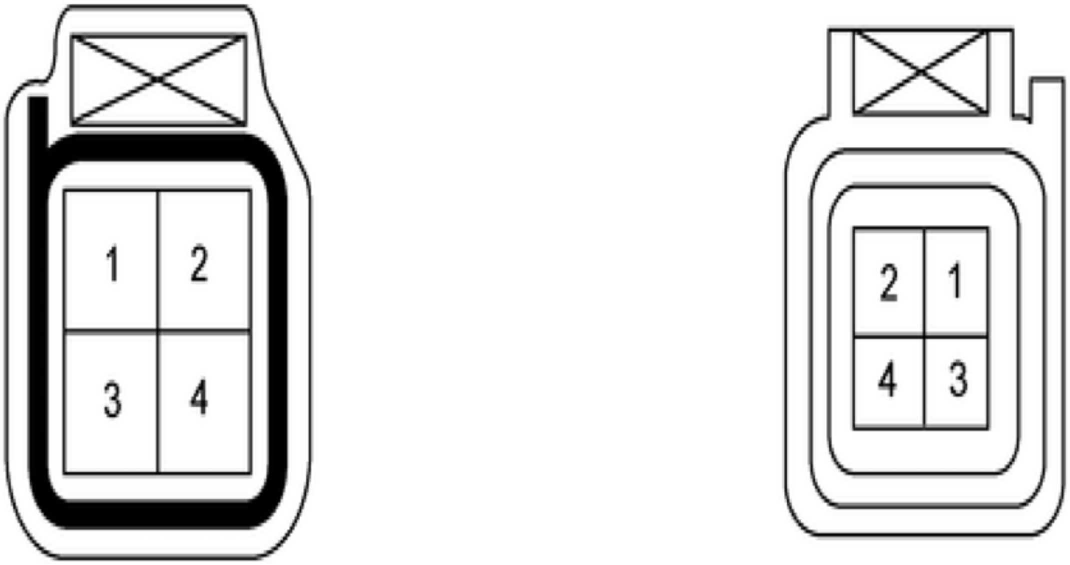
Connector Part Information		• X010418 • 16-Way F (BLK)		Connector Part Information		• X010423 • 16-Way M (BLK)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
10	BLU/WHT	TF405	CAN 3 Low to DEF Control Module	10	BLU/WHT	TF511C	CAN 3 Low to DEF Level & Temperature Sensor, NOx Sensors 1 and 2
11	BLU/WHT	FG36	DEF Tank and Temperature Sensor Voltage to Sensor	11	BLK/ORN	FG046C	DEF Tank and Temperature Sensor Voltage from X-19 NOx & DEF Sensor Relay (Switched Output Voltage)
12	PNK/WHT	FT37	DEF Tank and Temperature Sensor Low Reference to Ground J-142	12	BLK	FT037C	DEF Tank and Temperature Sensor Low Reference to DEF Tank Level Sensor
13	BLU	TF406	CAN 3 High to DEF Control module	13	BLU	TF512C	CAN 3 High to DEF Level & Temperature Sensor, NOx 1 and NOx 2 Sensors
14	BLU	TF302	CAN 3 High to Diesel Exhaust Fluid (DEF) Tank & Level Sensor, DEF Control Module	14	BLU	TF302C	CAN 3 High to NOx Sensors 1 and 2
15	RED/WHT	FG11	DEF Tank Heater Coolant Control Valve Voltage to DEF Tank Heater Control Valve	15	RED/WHT	FG011C	DEF Tank Heater Coolant Control Valve Voltage to DEF Heater Valve Relay
16	BLK	FT10	DEF Tank Heater Coolant Control Valve Ground to DEF Tank Heater Control Valve	16	BLU/WHT	FT010C	DEF Tank Heater Coolant Control Valve Ground to J- 142

Side of the Fuel Filter Housing, Behind the DEF Tank


J-167
H-171
J-300
J-195

4892010

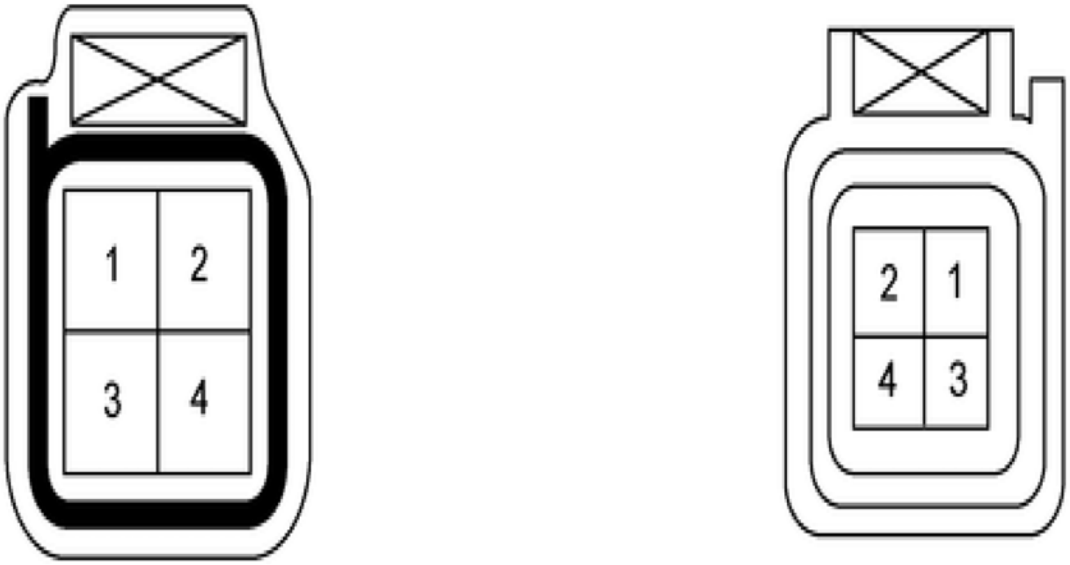
H-173 DPF Extension Harness to SCR Extension Harness



4892020

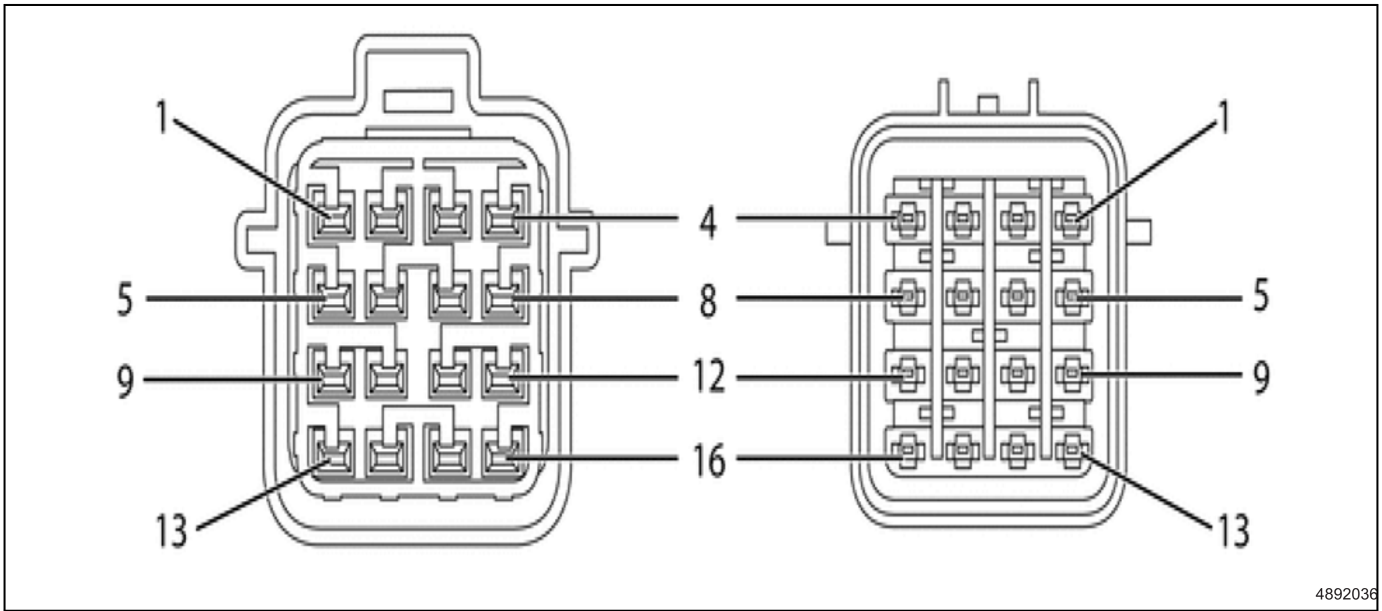
Connector Part Information	• X010352 • 4-Way F (BLK)			Connector Part Information	• X010357 • 4-Way M (BLK)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	BLK/ORN	IC018I	Ignition Voltage from Fuse F-33	1	BLK/ORN	IC018K	Ignition Voltage from Fuse F-33 to Particulate Matter Sensor
2	BLK	IZ018I	Ground J-10 and J-12 from Splice 7	2	BLK	IZ018K	Ground J-10 and J-12 to Particulate Matter Sensor
3	GRN/WHT	TF053I	ISO 15765 CAN 2 High	3	GRN/WHT	TF053K	ISO 15765 CAN 2 High to Particulate Matter Sensor
4	GRN	TF054I	ISO 15765 CAN 2 Low	4	GRN	TF054K	ISO 15765 CAN 2 Low to Particulate Matter Sensor

Right Inner Frame Rail, Above the Front of the Diesel Particulate Filter (DPF)

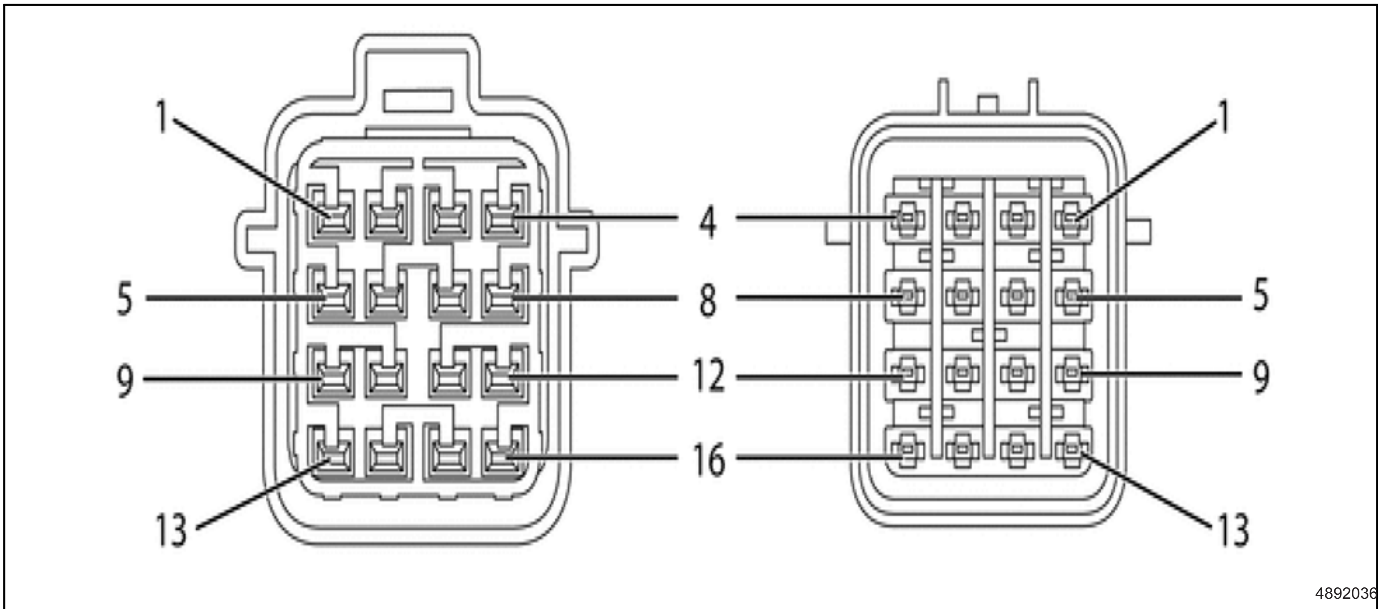


4892020

H-174 DPF Extension Harness to SCR Extension Harness



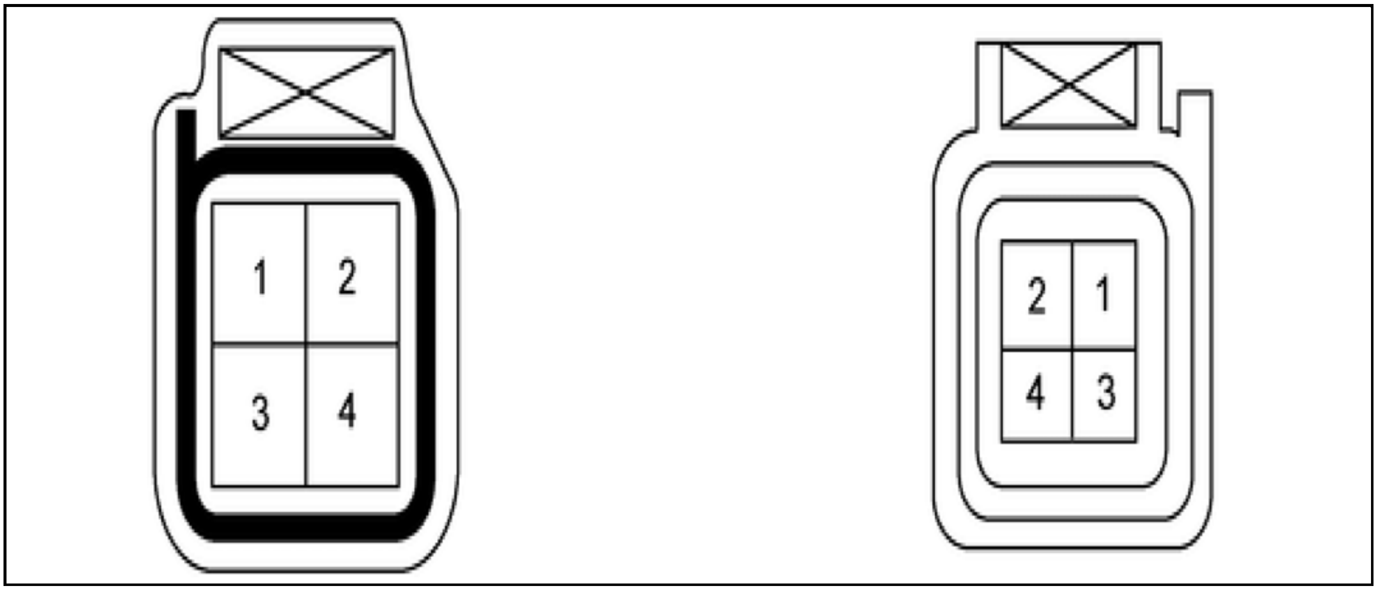
Connector Part Information	• X010418 • 16-Way F (BLK)			Connector Part Information	• X010423 • 16-Way M (BLK)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	VIO/WHT	FG024I	Exhaust Temperature Sensor 3 Low Reference to DEF Control Module	1	VIO/WHT	FG024K	Exhaust Temperature Sensor 3 Low Reference to Exhaust Temperature Sensor 3
2	VIO	FG023I	Exhaust Temperature Sensor 3 Signal to DEF Control Module	2	VIO	FG023K	Exhaust Temperature Sensor 3 Signal to Exhaust Temperature Sensor 3
3	BLK/ORN	FG035I	NOx & DEF Sensor Relay (Switched Output Voltage) from Relay	3	BLK/ORN	FG035K	NOx & DEF Sensor Relay (Switched Output Voltage) to NOx Sensor 2
4	BLK	FT009I	NOx Sensor 2 Ground to NOx Sensor 2	4	BLK	FT009K	NOx Sensor 2 Ground to J-142
5	RED	FG009I	DEF Injector High Side to DEF Control Module	5	RED	FG009K	DEF Injector High Side to DEF Injector
6	BLU	FG010I	DEF Injector Low Side to DEF Control Module	6	BLU	FG010K	DEF Injector Low Side to DEF Injector
7	WHT	IC026I	MAF Sensor Signal to ECM	7	WHT	IC026K	MAF Sensor Signal from Sensor
8	BLK	IC027I	MAF Sensor Low Reference to ECM	8	BLK	IC027K	MAF Sensor Low Reference from Sensor
9	RED/WHT	IC034I	Battery Voltage from Fuse F-33 from Fuse/Relay Center	9	RED/WHT	IC034K	Battery Voltage from Fuse F-33 to MAF & IAT 1 Sensor
10	BLU/BLK	IC068I	IAT Sensor 5 Volt Reference from ECM	10	BLU/BLK	IC068K	IAT Sensor 5 Volt Reference to Sensor



4892036

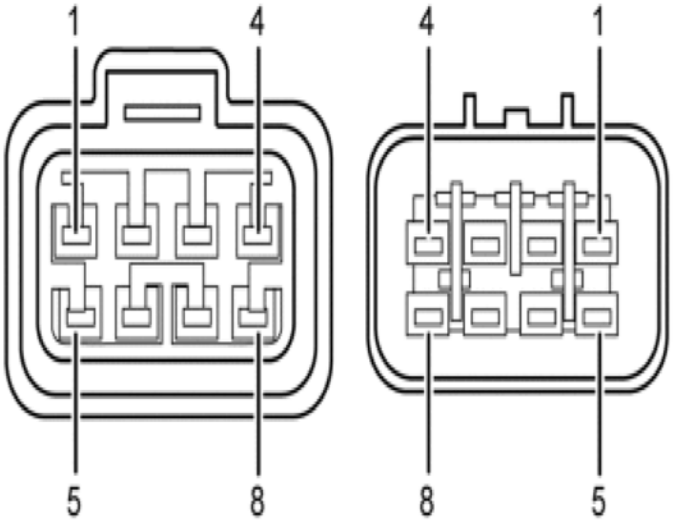
Connector Part Information	• X010418 • 16-Way F (BLK)			Connector Part Information	• X010423 • 16-Way M (BLK)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
11	BLU/RED	IC096I	IAT Sensor Low Reference from ECM	11	BLU/RED	IC096K	IAT Sensor Low Reference to Sesnor
12	BLU/YEL	MA015I	Air Filter Switch Signal to IPC	12	BLU/YEL	MA015K	Air Filter Switch Signal from Switch
13	BLK	MX007I	Ground to Splice 7 (J-10 and J-12 Ground)	13	BLK	MX007K	Ground to Air Filter Switch
14	BLU/WHT	TF303I	CAN 3 Low	14	BLU/WHT	TF303K	CAN 3 Low to NOx Sensor 2
15	BLU	TF304I	CAN 3 High	15	BLU	TF304K	CAN 3 High to NOx Sensor 2
16	—	—	Not Used	16	—	—	Not Used

Right Inner Frame Rail, Above the Front of the Diesel Particulate Filter (DPF)



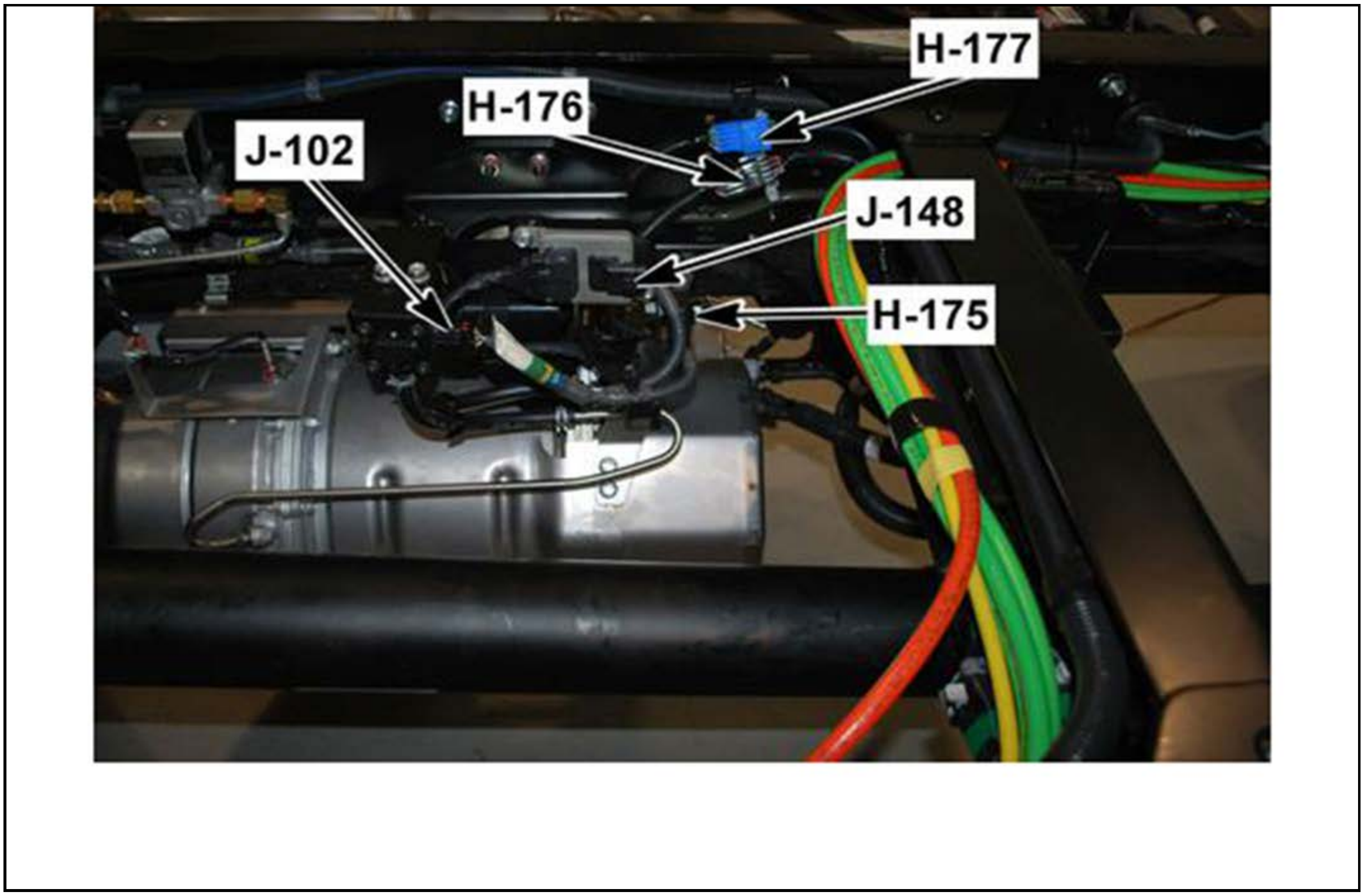
4892020

H-175 DPF Extension Harness to DPF Harness



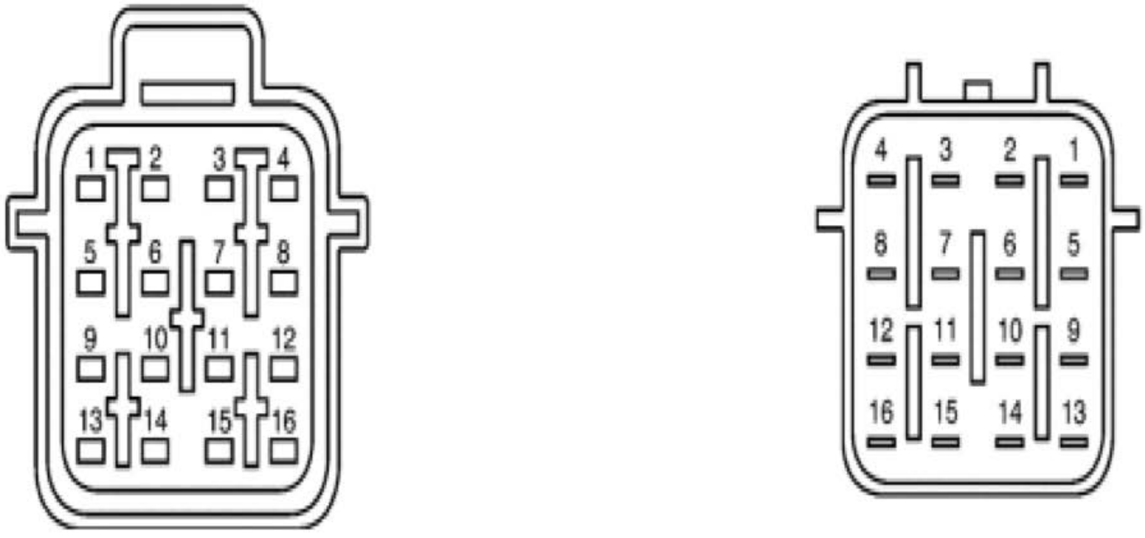
Connector Part Information	• X010369 • 8-Way F (BLK)			Connector Part Information	• X010371 • 8-Way M (BLK)		
Pin	Wire Color	Circuit No	Function	Pin	Wire Color	Circuit No	Function
1	VIO/WHT	IC056I	Exhaust Differential Pressure Sensor Low Reference from ECM	1	VIO/WHT	IC56	Exhaust Differential Pressure Sensor Low Reference to Sensor
2	GRN/YEL	IC055I	Exhaust Differential Pressure Sensor Signal to ECM	2	GRN/YEL	IC55	Exhaust Differential Pressure Sensor from Sensor
3	WHT/ORN	IC054I	Exhaust Differential Pressure Sensor 5 Volt Reference from ECM	3	WHT/ORN	IC54	Exhaust Differential Pressure Sensor 5 Volt Reference to Sensor
4	BLK/ORN	FG007I	NOx & DEF Sensor Relay (Switched Output Voltage) From Relay	4	BLK/ORN	FG07	NOx & DEF Sensor Relay (Switched Output Voltage) to NOx Sensor 1
5	BLK	FT007I	NOx Sensor 1 Ground to NOx Sensor 1	5	BLK	FT07	NOx Sensor 1 Ground to Ground J-142
6	BLU	TF308I	CAN 3 High to Diesel Exhaust Fluid (DEF) Tank & Level Sensor, DEF Control Module, NOx Sensor 2	6	BLU	TF308	CAN 3 High to NOx Sensor 1
7	BLU/WHT	TF307I	CAN 3 Low to Diesel Exhaust Fluid (DEF) Tank & Level Sensor, DEF Control Module, NOx Sensor 2	7	BLU/WHT	TF307	CAN 3 Low to NOx Sensor 1
8	—	—	Not Used	8	—	—	Not Used

Right Inner Frame Rail, Above the Diesel Particulate Filter (DPF)

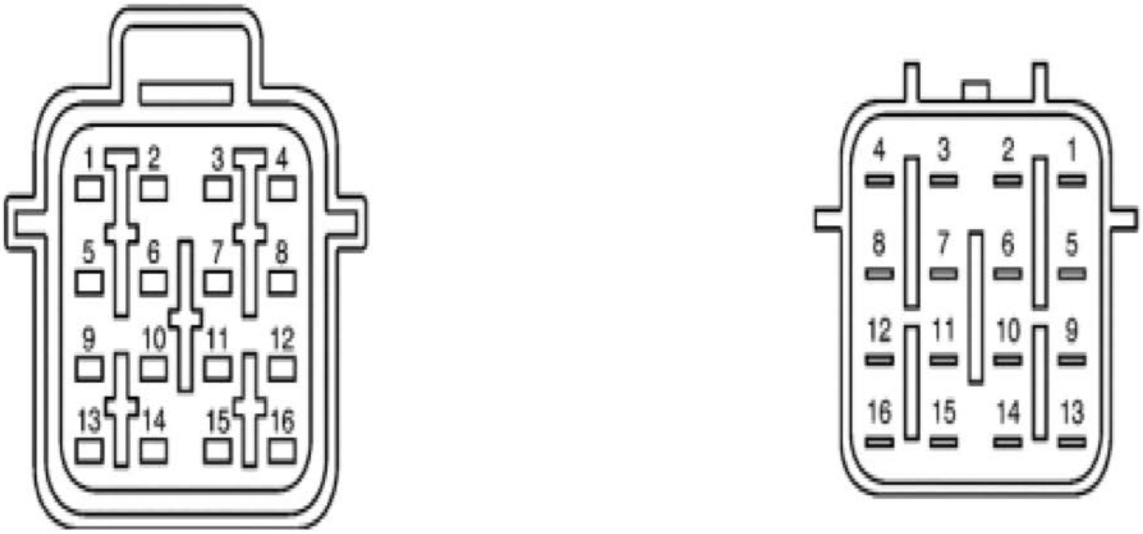

H-177
H-176
J-102
J-148
H-175

4892049

H-176 Front Chassis Harness to DPF Extension Harness



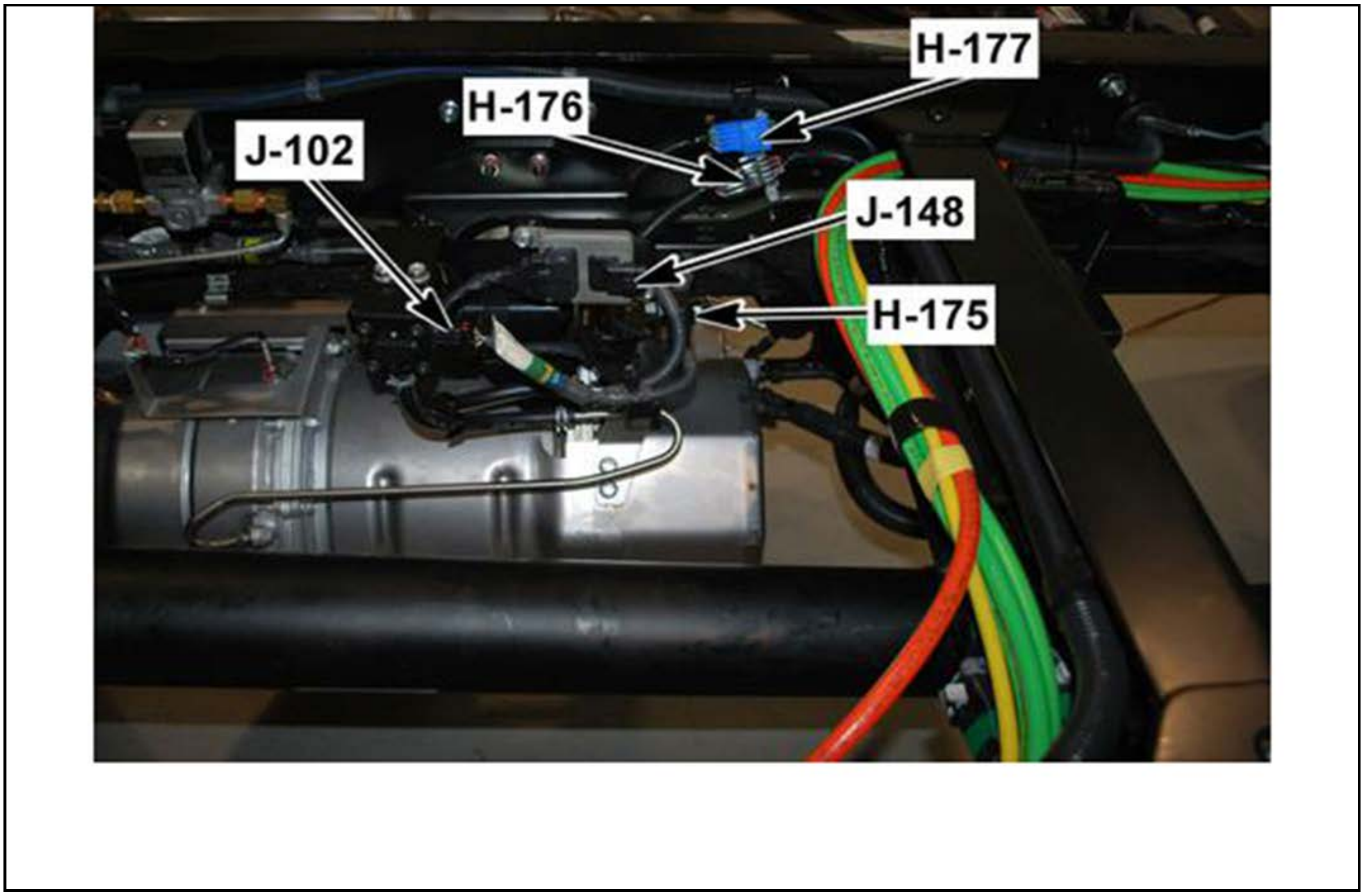
Connector Part Information	• X010418 • 16-Way F (BLK)			Connector Part Information	• X010423 • 16-Way M (BLK)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	BLK/ORN	FG035C	NOx & DEF Sensor Relay (Switched Output Voltage) from Relay	1	BLK/ORN	FG035I	NOx & DEF Sensor Relay (Switched Output Voltage) to NOx Sensor 1
2	RED	IC012C	EGT Sensor 2 Signal to ECM	2	RED	IC012I	EGT Sensor 2 Signal from Sensor
3	WHT	IC026C	MAF Sensor Signal to ECM	3	WHT	IC026I	MAF Sensor Signal from Sensor
4	BLK/ORN	FG007C	NOx & DEF Sensor Relay (Switched Output Voltage) from Relay	4	BLK/ORN	FG007I	NOx & DEF Sensor Relay (Switched Output Voltage) to NOx Sensor 2
5	BLK	FT007C	NOx 1 and NOx 2 Grounds to Sensors	5	BLK	FT007I	NOx 1 and NOx 2 Grounds to Ground J-142
6	VIO	FG023C	Exhaust Temperature Sensor 3 Signal to DEF Control Module	6	VIO	FG023I	Exhaust Temperature Sensor 3 Signal to Exhaust Temperature Sensor 3
7	VIO/WHT	FG024C	Exhaust Temperature Sensor 3 Low Reference to DEF Control Module	7	VIO/WHT	FG024I	Exhaust Temperature Sensor 3 Low Reference to Exhaust Temperature Sensor 3
8	BLK	IC027C	MAF Sensor Low Reference from ECM	8	BLK	IC027I	MAF Sensor Low Reference to Sensor
9	RED	FG009C	DEF Injector High Side to DEF Control Module	9	RED	FG009I	DEF Injector High Side to DEF Injector
10	BLU	FG010C	DEF Injector Low Side to DEF Control Module	10	BLU	FG010I	DEF Injector Low Side to DEF Injector



4891890

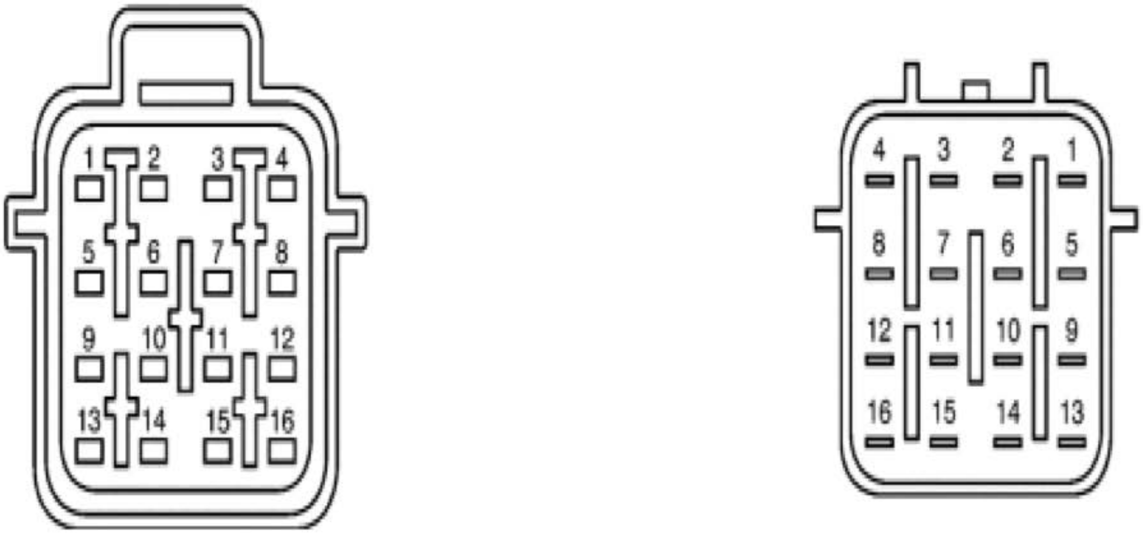
Connector Part Information		• X010418 • 16-Way F (BLK)		Connector Part Information		• X010423 • 16-Way M (BLK)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
11	BLK/ORN	IC031C	Ignition Voltage from Fuse F-33	11	RED/WHT	IC031I	Ignition Voltage from Fuse F-33 to Exhaust Brake Solenoid Valve
12	BLK/ORN	IC003C	Battery Voltage from Fuse F-33 from Fuse/Relay Center	12	RED/WHT	IC034I	Battery Voltage from Fuse F-33 to MAF & IAT 1 Sensor
13	VIO/YEL	IC052C	EGT Sensor 2 Low Reference to ECM	13	VIO/YEL	IC052I	EGT Sensor 2 Low Reference from Sensor
14	ORN	IC054C	Exhaust Differential Pressure Sensor 5 Volt Reference from ECM	14	WHT/ORN	IC054I	Exhaust Differential Pressure Sensor 5 Volt Reference to Sensor
15	YEL	IC055C	Exhaust Differential Pressure Sensor Signal to ECM	15	GRN/YEL	IC055I	Exhaust Differential Pressure Sensor from Sensor
16	BRN	IC056C	Exhaust Differential Pressure Sensor Low Reference from ECM	16	VIO/WHT	IC056I	Exhaust Differential Pressure Sensor Low Reference to Sensor

Right Inner Frame Rail, Next to the Diesel Particulate Filter (DPF)


H-177
H-176
J-102
J-148
H-175

4892049

H-177 Front Chassis Harness to DPF Extension Harness


1
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15
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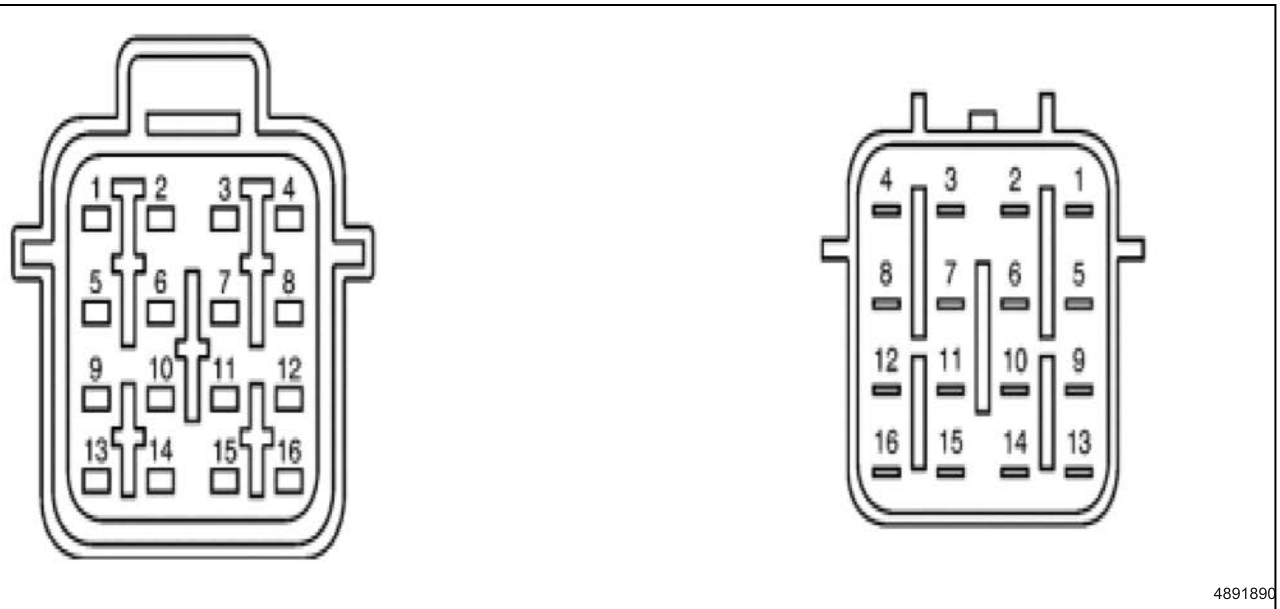
13

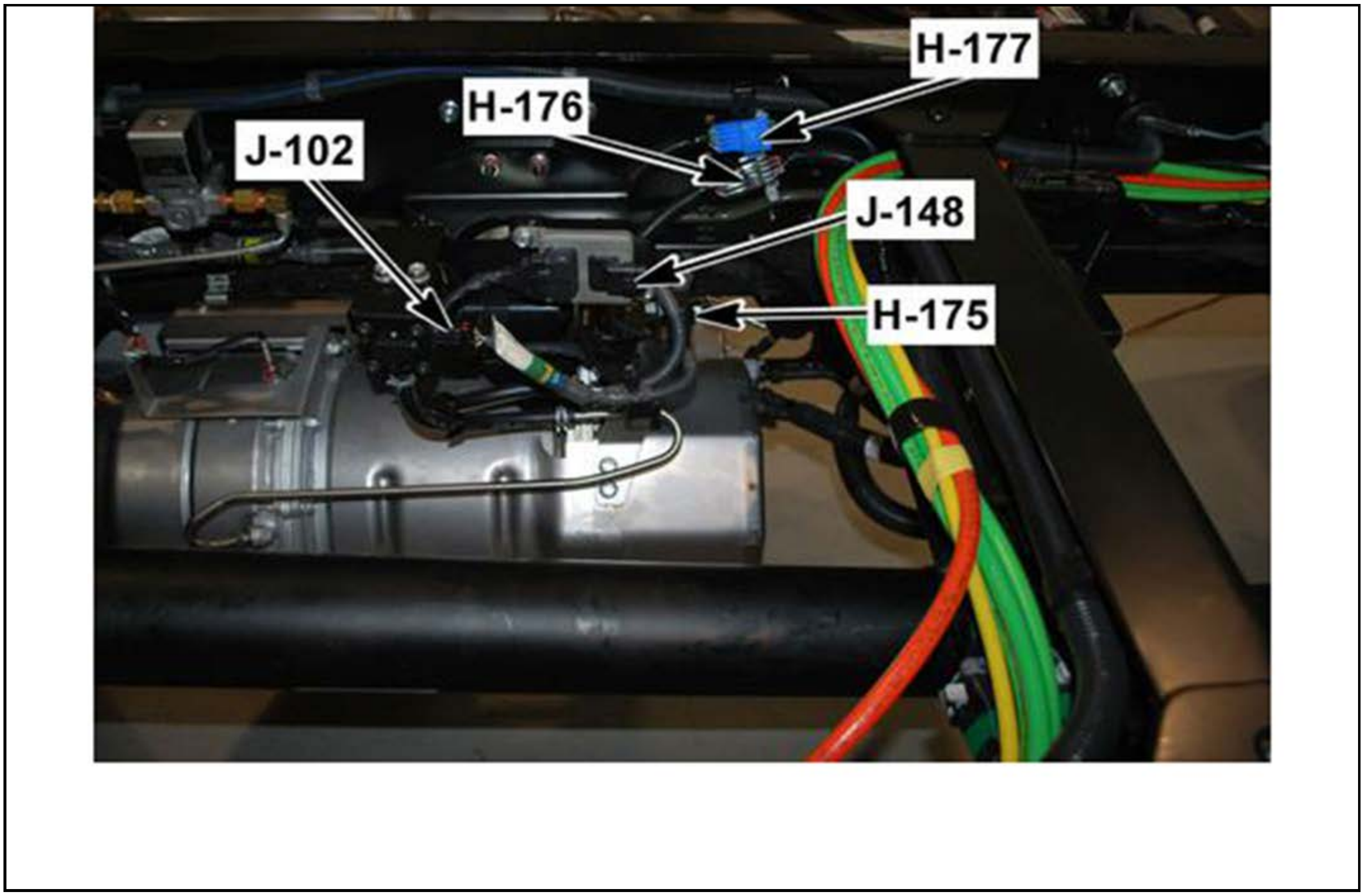
4891890

Connector Part Information	• X010419 • 16-Way F (BLU)			Connector Part Information	• X010424 • 16-Way M (BLU)		
Pin	Wire Color	Circuit No	Function	Pin	Wire Color	Circuit No	Function
1	BLU/WHT	TF301C	CAN 3 Low Serial Data	1	BLU/WHT	TF301I	CAN 3 Low Serial Data

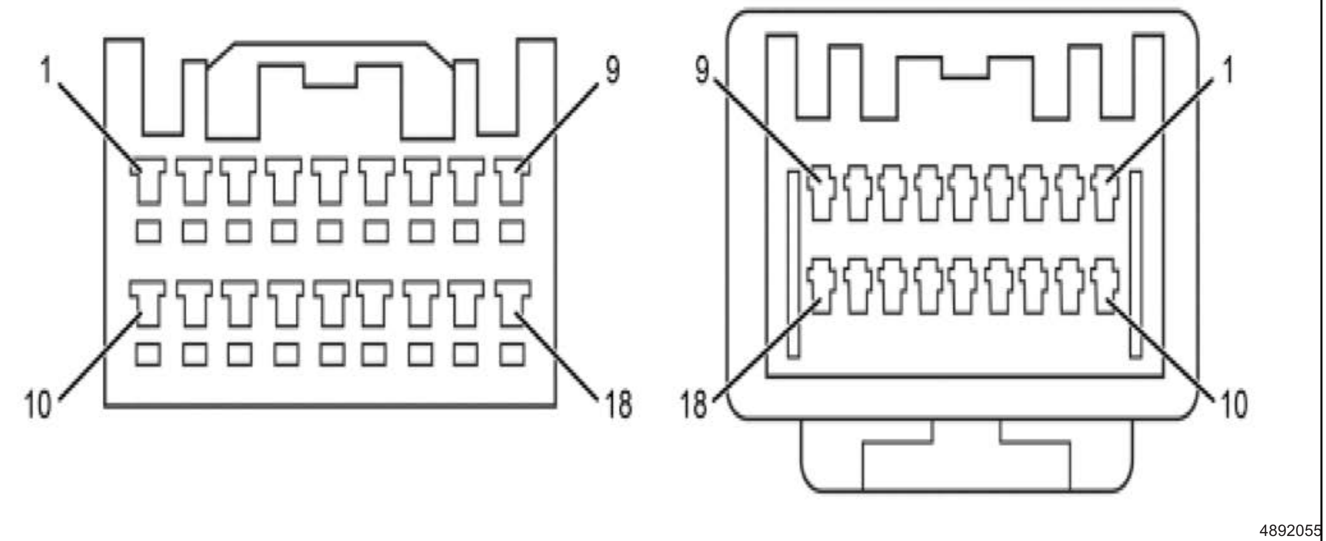


Connector Part Information	• X010419 • 16-Way F (BLU)			Connector Part Information	• X010424 • 16-Way M (BLU)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
2	BLU	TF302C	CAN 3 High Serial Data	2	BLU	TF302I	CAN 3 High Serial Data
3	—	—	Not Used	3	—	—	Not Used
4	—	—	Not Used	4	—	—	Not Used
5	BLU/BLK	IC068C	IAT Sensor Signal to ECM	5	BLU/BLK	IC068I	IAT Sensor Signal from Sensor
6	WHT/GRN	IC076C	Exhaust Brake Solenoid Valve Control to ECM	6	WHT/GRN	IC076I	Exhaust Brake Solenoid Valve Control from Valve
7	YEL/RED	IC079C	EGT Sensor 1 Signal to ECM	7	YEL/RED	IC079I	EGT Sensor 1 Signal from Sensor
8	VIO/GRN	IC080C	EGT Sensor 1 Signal Low Reference from ECM	8	VIO/GRN	IC080I	EGT Sensor 1 Signal Low Reference to Sensor
9	BLU/RED	IC096C	IAT Sensor Signal Low Reference from ECM	9	BLU/RED	IC096I	IAT Sensor Signal Low Reference to Sensor
10	BLU/YEL	MA015C	Air Filter Switch Signal to IPC	10	BLU/YEL	MA015I	Air Filter Switch Signal from Switch
11	BLK	IZ018C	Ground to Splice 7 (J-10 and J-12 Grounds)	11	BLK	IZ018I	Ground to Air Filter Switch and PM Sensor
12	BLK/ORN	IC018C	Ignition Voltage from Fuse F-33 from Fuse/Relay Center	12	BLK/ORN	IC018I	Ignition Voltage from Fuse F-33 to Particulate Matter Sensor
13	GRN/WHT	TF435C	ISO 15765 CAN 2 High Serial Data	13	GRN/WHT	TF435I	ISO 15765 CAN 2 High Serial Data
14	GRN	TF436C	ISO 15765 CAN 2 Low Serial Data	14	GRN	TF436I	ISO 15765 CAN 2 Low Serial Data
15	GRN/WHT	TF437C	ISO 15765 CAN 2 High Serial Data	15	GRN/WHT	TF437I	ISO 15765 CAN 2 High Serial Data
16	GRN	TF438C	ISO 15765 CAN 2 Low Serial Data	16	GRN	TF438I	ISO 15765 CAN 2 Low Serial Data

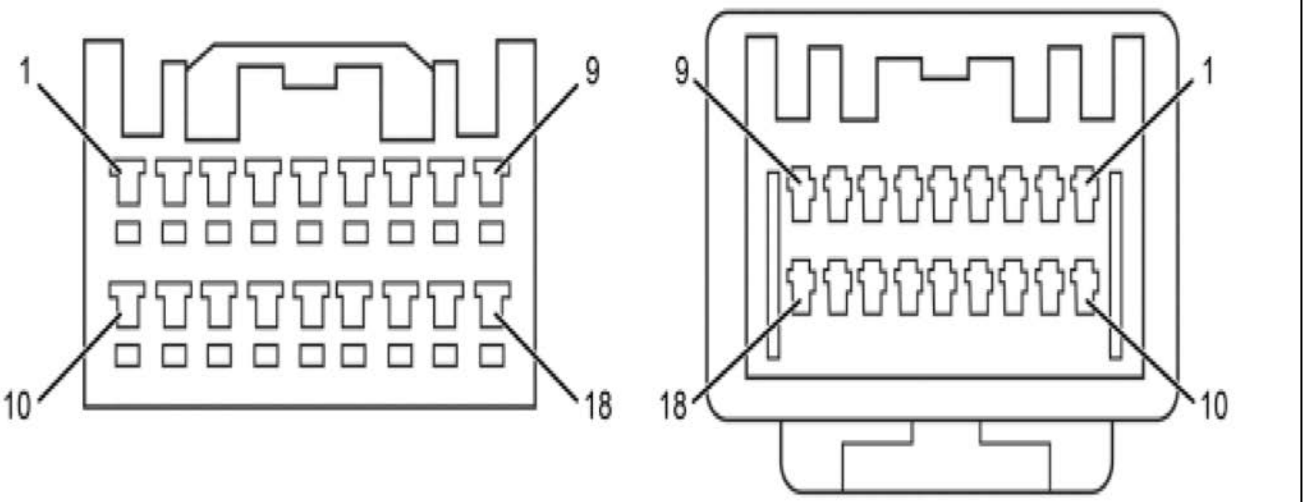
Right Inner Frame Rail, Next to the Diesel Particulate Filter (DPF)


H-177
H-176
J-102
J-148
H-175
4892049

H-195 FMS Harness to Chassis Harness


1
9
10
18
9
1
18
10
4892055

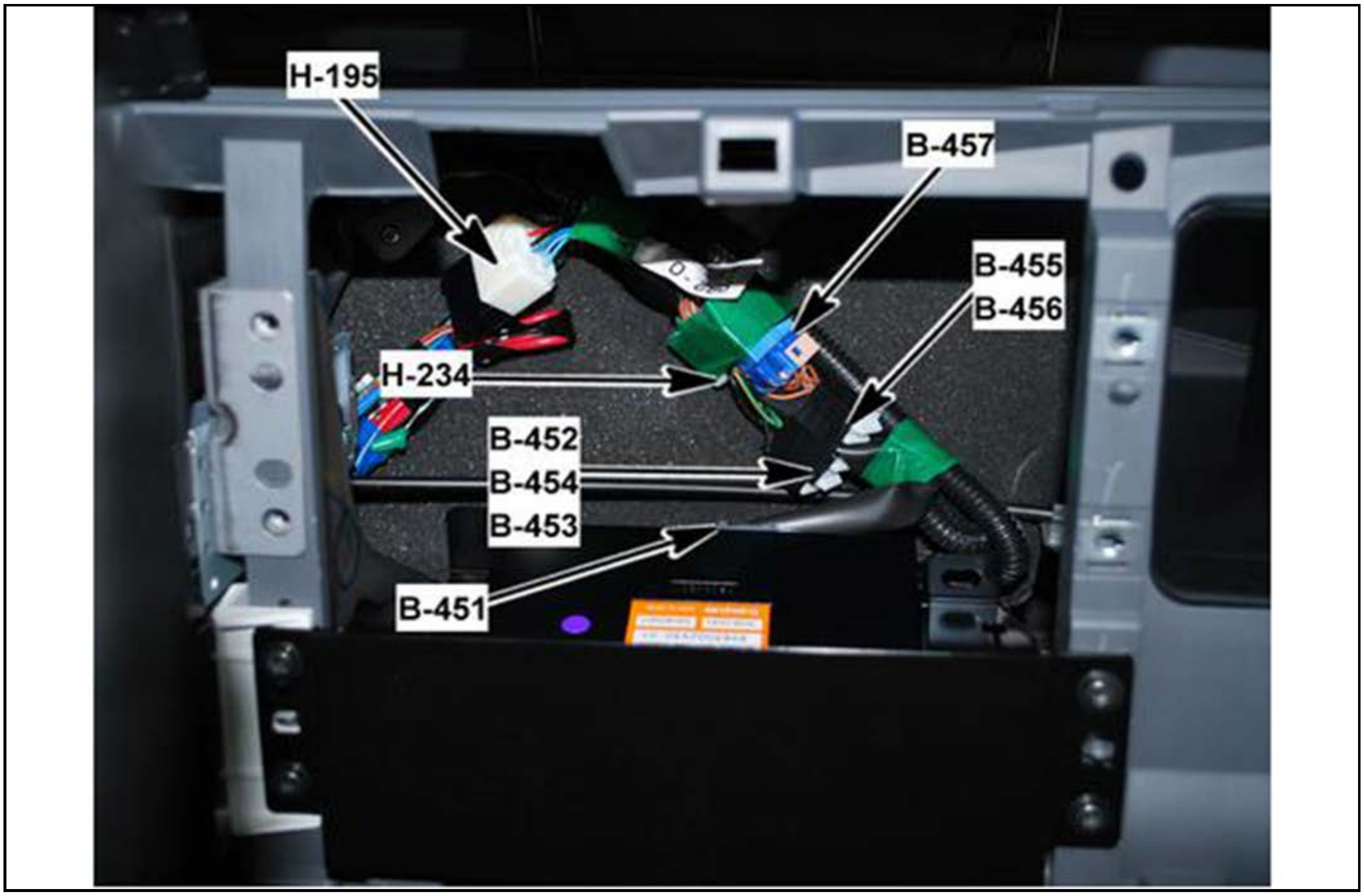
Connector Part Information		• 7383-5833 • 18-Way F (WHT)		Connector Part Information		• 7382-5833 • 18-Way M (WHT)	
Pin	Wire Color	Circuit No	Function	Pin	Wire Color	Circuit No	Function
1–2	—	—	Not Used	1–2	—	—	Not Used



4892055

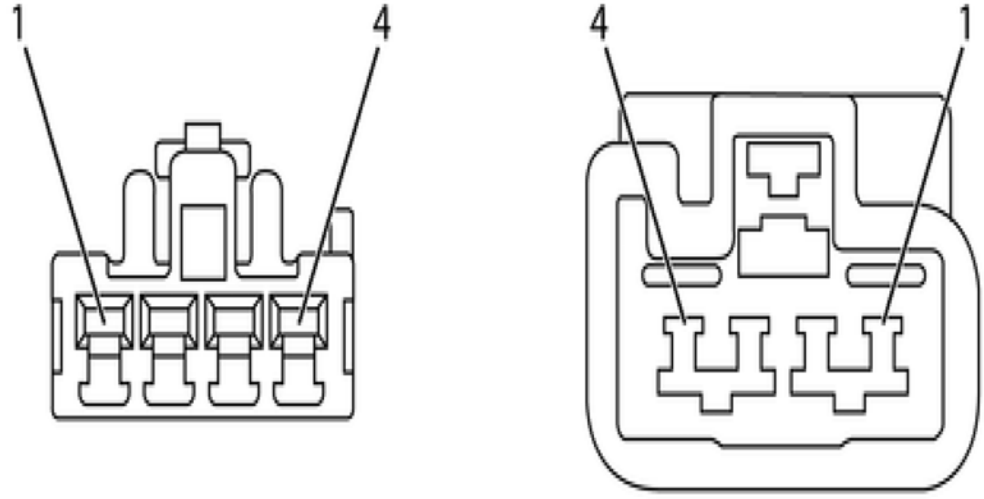
Connector Part Information	• 7383-5833 • 18-Way F (WHT)			Connector Part Information	• 7382-5833 • 18-Way M (WHT)		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
3	RED	GG013T	Battery Voltage from Fuse F-3 to B- 452 Splice Pack	3	RED	GG013B	Battery Voltage from Fuse F-3 from J/B 2 (B-146 pin 18)
4	—	—	Not Used	4	—	—	Not Used
5	BLK	GT006T	Ground to B-601 Splice Pack (B-51 Ground)	5	BLK	GT006B	Ground from B-453 Splice Pack
6	BLU	TF062T	J1939 CAN 1 Low to FMS Module	6	BLU	TF062B	J1939 CAN 1 Low to B-459 CAN 1 Splice Pack
7–9	—	—	Not Used	7–9	—	—	Not Used
10	—	—	Not Used	10	GRN	SA050B	Ignition Voltage from Fuse B-2
11–12	—	—	Not Used	11–12	—	—	Not Used
13	GRN/YEL	GG012T	Ignition Voltage from Fuse F-21 to FMS Module	13	GRN/YEL	GG012B	Ignition Voltage from Fuse F-21 from J/B 2 (B-140 pin 15)
14	—	—	Not Used	14	—	—	Not Used
15	BLU/WHT	TF061T	J1939 CAN 1 High to FMS Module	15	BLU/WHT	TF061B	J1939 CAN 1 High to B-458 CAN 1 Splice Pack
16	—	—	Not Used	16	—	—	Not Used
17	LT BLU	GG004T	ISO 14230 Communication to FMS Module	17	LT BLU	GG004B	ISO 14230 Communication to J/ B 2 (B-139 pin 15)
18	—	—	Not Used	18	—	—	Not Used

Behind the Storage Compartment, Right Side of the Radio



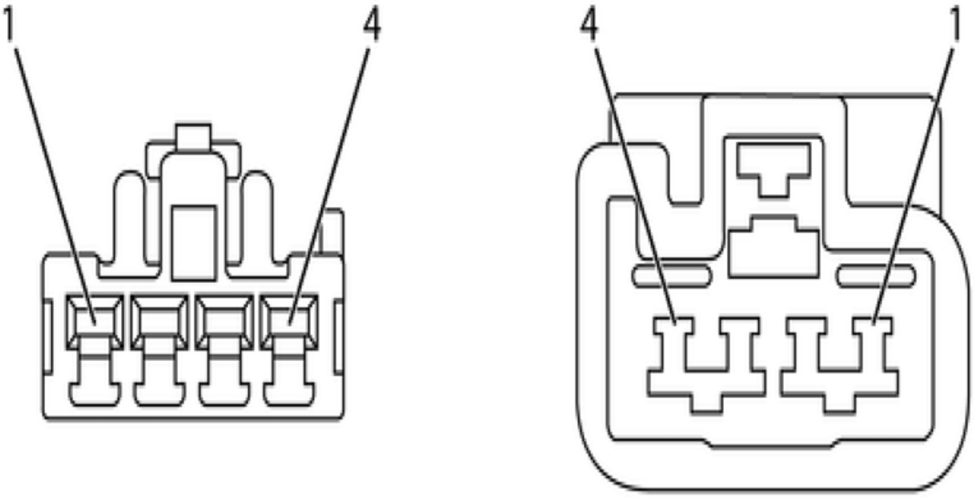
4891103

H-216 Front Chassis Harness to I/P Harness



4892090

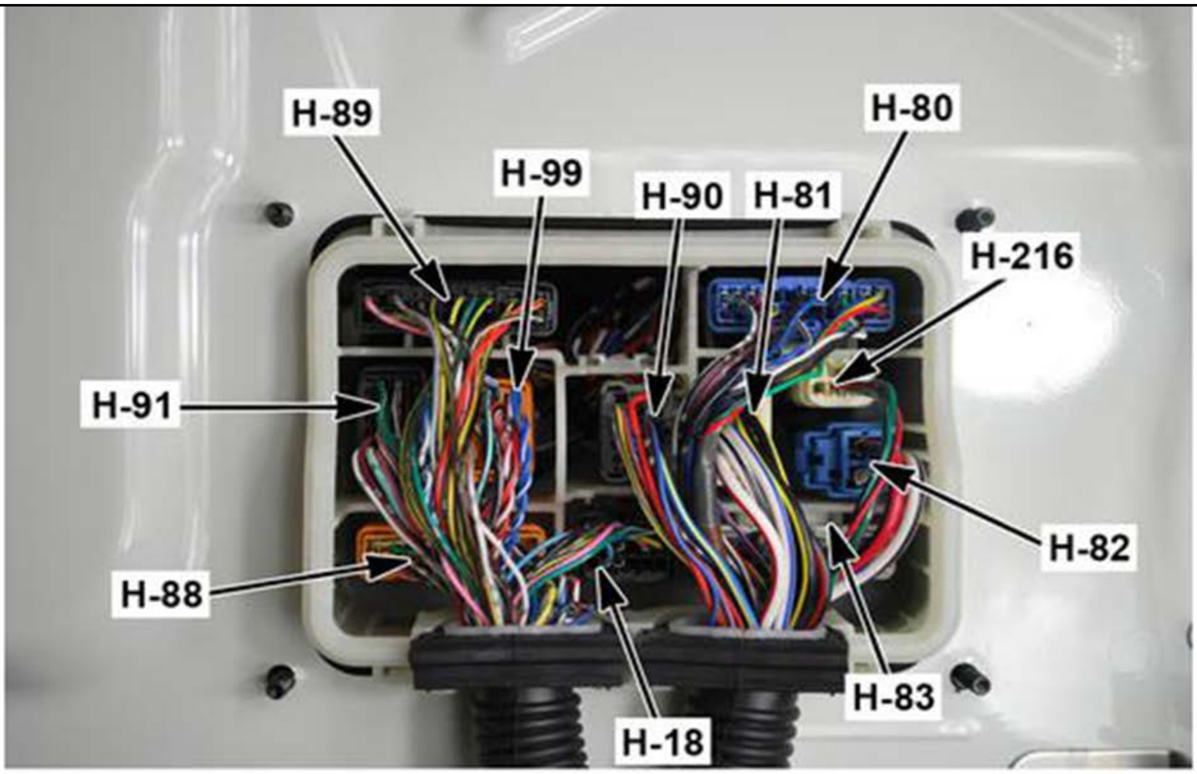
Connector Part Information		• 7383-1044 • 4-Way F (WHT)		Connector Part Information		• 7382-1044 • 4-Way M (WHT)	
Pin	Wire Color	Circuit No	Function	Pin	Wire Color	Circuit No	Function
1	GRN/BLK	PA047C	Battery Voltage from Fuse F-32	1	GRN/BLK	PA047B	Battery Voltage from Fuse F-32 to B-378 Splice Pack



4892090

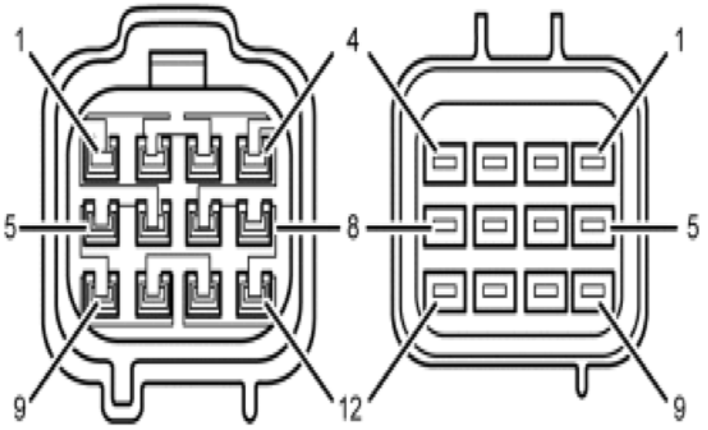
Connector Part Information		• 7383-1044 • 4-Way F (WHT)		Connector Part Information		• 7382-1044 • 4-Way M (WHT)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
2	GRN/BLK	PA017C	Battery Voltage from Fuse F-32	2	GRN/BLK	PA017B	Battery Voltage from Fuse F-32 to B-378 Splice Pack
3	RED/BLK	IC180C	Fuse F-18 Voltage to Upfitter Connector (H-104 pin A)	3	RED/BLK	IC180B	Fuse F-18 Voltage from J/B 1 (B-131 pin 18)
4	—	—	Not Used	4	—	—	Not Used

Front of the Cab, Behind the Washer Fluid Reservoir


H-89
H-99
H-90
H-81
H-80
H-216
H-91
H-82
H-88
H-83
H-18

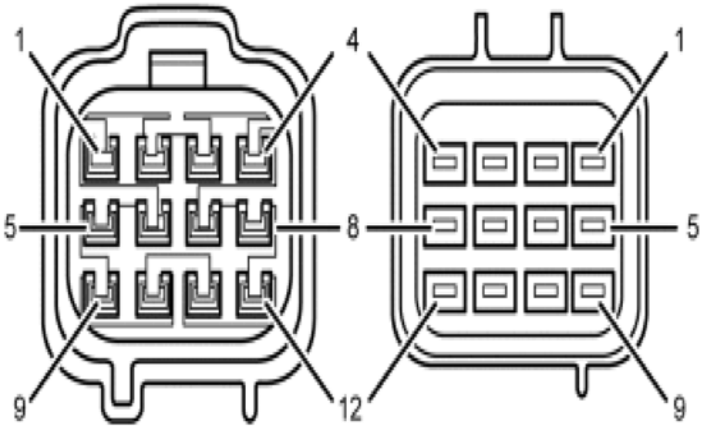
4891871

H-218 Front Chassis Harness to the Engine Harness



4892091

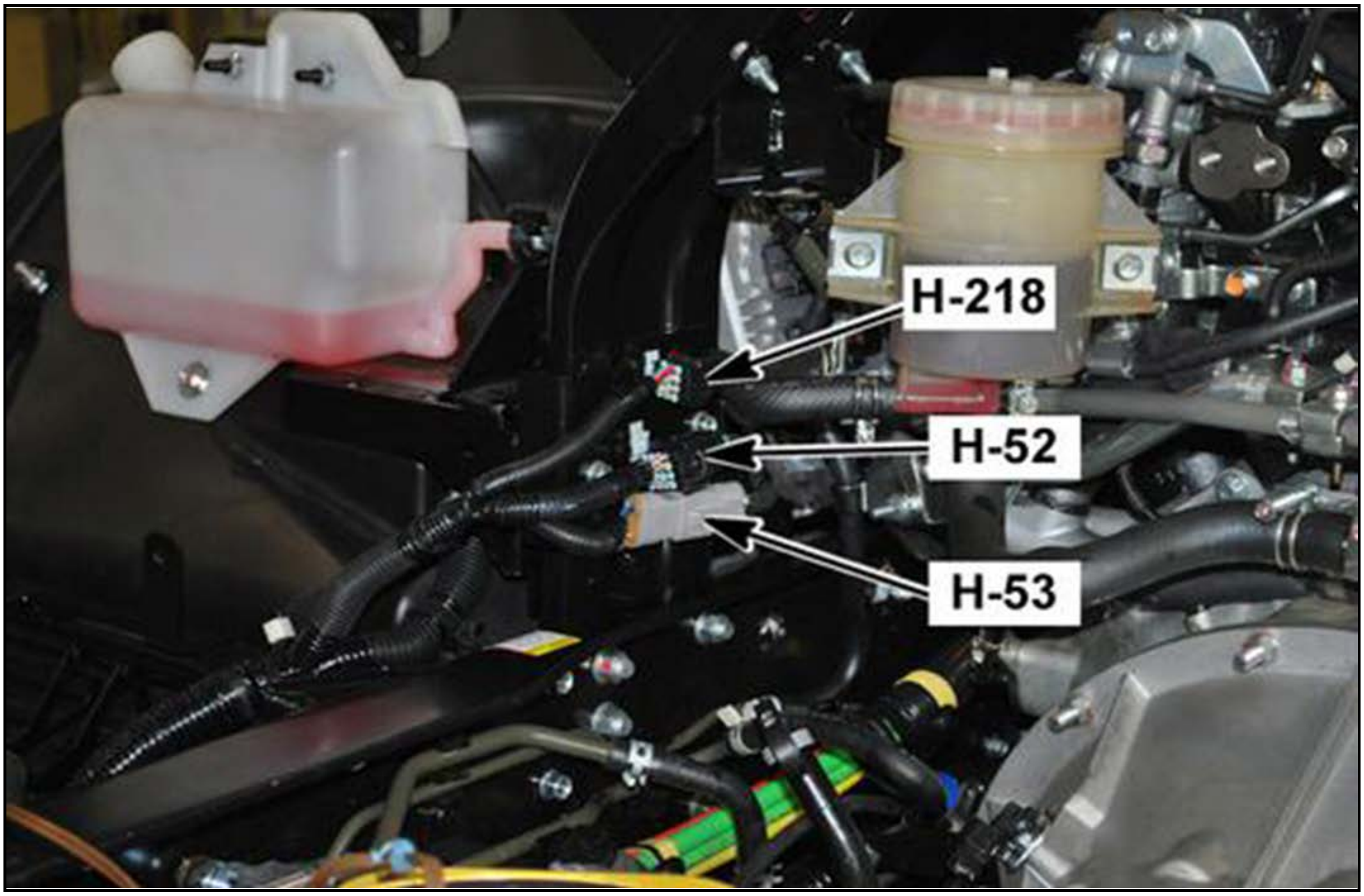
Connector Part Information		• X010408 • 12-Way F (BLK)		Connector Part Information		• 897364-5450 • 12-Way M (BLK)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	LT GRN	IC134C	DPF Fuel Pressure Sensor 5 Volt Reference 3 Voltage from ECM	1	LT GRN	IC134	DPF Fuel Pressure Sensor 5 Volt Reference 3 Voltage to Sensor
2	WHT/ORN	IC135C	DPF Fuel Pressure Sensor Signal to ECM	2	WHT/ORN	IC135	DPF Fuel Pressure Sensor Signal from Sensor
3	YEL/BLK	IC136C	DPF Fuel Pressure Sensor Low Reference from ECM	3	YEL/BLK	IC136	DPF Fuel Pressure Sensor Low Reference to Sensor
4	BLK/ORN	IC228C	Ignition Voltage from Fuse F-35 Voltage from Fuse/Relay Center	4	GRN	IC228	Ignition Voltage from Fuse F-35 Voltage to EGR Valve
5	YEL/BRN	IC153C	EOP Sensor 5 Volt Reference 4 Voltage to ECM	5	WHT	IC153A	EOP Sensor 5 Volt Reference 4 Voltage to Engine Oil Pressure Sensor
6	BRN/WHT	IC154C	EOP Sensor Signal to ECM	6	RED	IC154A	EOP Sensor Signal from Engine Oil Pressure Sensor
7	PNK	IC155C	EOP Sensor Low Reference to ECM	7	BLK	IC155A	EOP Sensor Low Reference to Engine Oil Pressure Sensor
8	RED/WHT	IC999C	ECM Main Relay (Switched Output Voltage) to splice 15	8	RED/WHT	IC999E	ECM Main Relay (Switched Output Voltage) to DPF Fuel Cut Solenoid Valve
9	GRN/WHT	TF035C	ISO 15765 CAN 2 High Serial Data	9	GRN/WHT	TF535	ISO 15765 CAN 2 High Serial Data
10	GRN	TF036C	ISO 15765 CAN 2 Low Serial Data	10	GRN	TF536	ISO 15765 CAN 2 Low Serial Data
11	GRN/WHT	TF437C	ISO 15765 CAN 2 High Serial Data	11	GRN/WHT	TF735	ISO 15765 CAN 2 High Serial Data



4892091

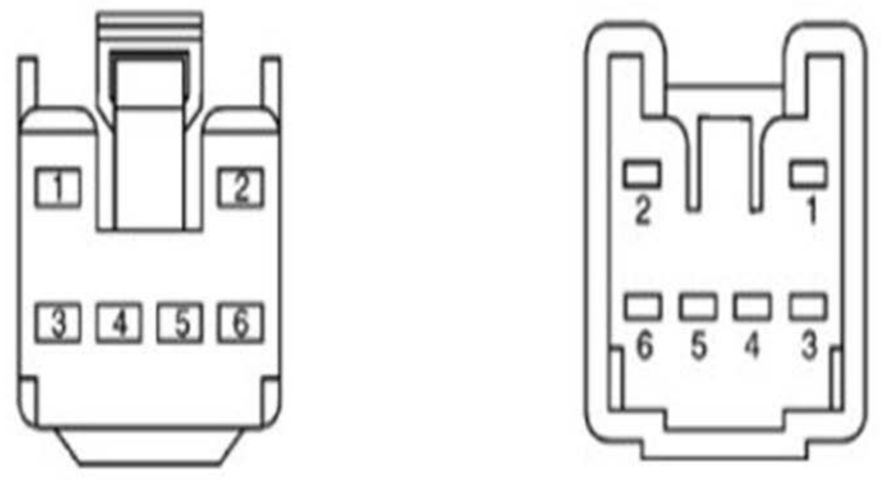
Connector Part Information		• X010408 • 12-Way F (BLK)		Connector Part Information		• 897364-5450 • 12-Way M (BLK)	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
12	GRN	TF438C	ISO 15765 CAN 2 Low Serial Data	12	GRN	TF736	ISO 15765 CAN 2 Low Serial Data

On the Left Side of the Rear Cab Support



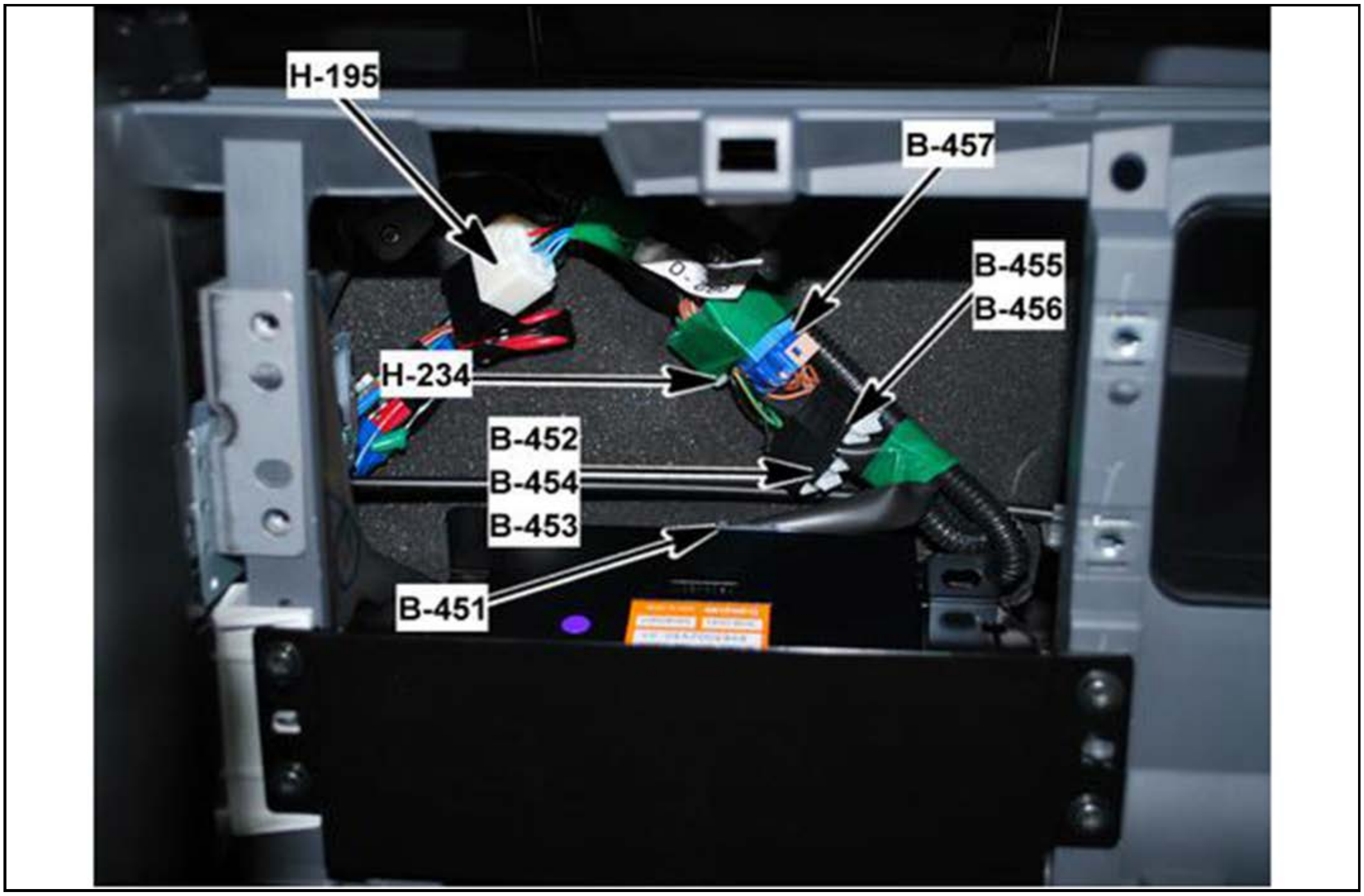
4891894

H-234 Telematics Connector to Interface Harness

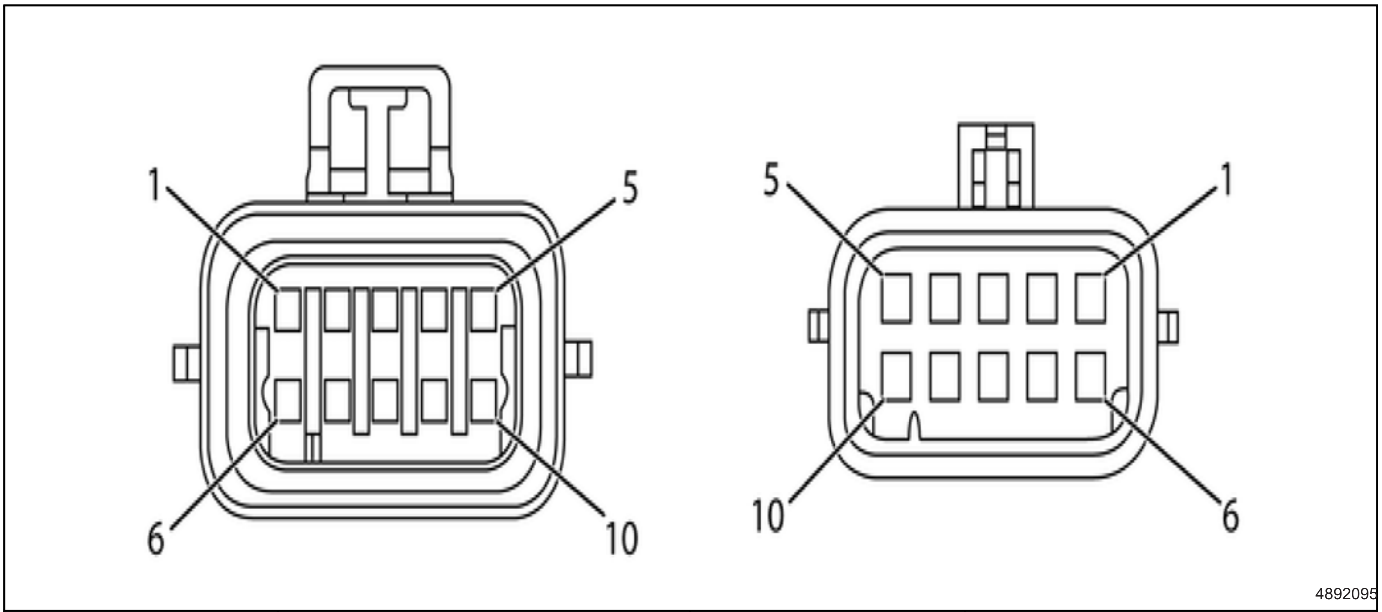


Connector Part Information		• 7323-8365 • 6-Way F (WHT)		Connector Part Information		• Not Available • 6-Way M (N/A) • Body Builder Installed	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	RED	GG023	Battery Voltage from Fuse F-3	1	—	—	Battery Voltage from Fuse F-3
2	GRN/YEL	GG022	Ignition Voltage from Fuse F-21	2	—	—	Ignition Voltage from Fuse F-21
3	—	—	Not Used	3	—	—	Not Used
4	BLK	GT026	Ground to B-453 Splice Pack (B-51 Ground)	4	—	—	Ground to B-453 Splice Pack (B-51 Ground)
5	BRN	TF070T	CAN 4 Low	5	—	—	CAN 4 Low
6	BRN/WHT	TF069T	CAN 4 High	6	—	—	CAN 4 High

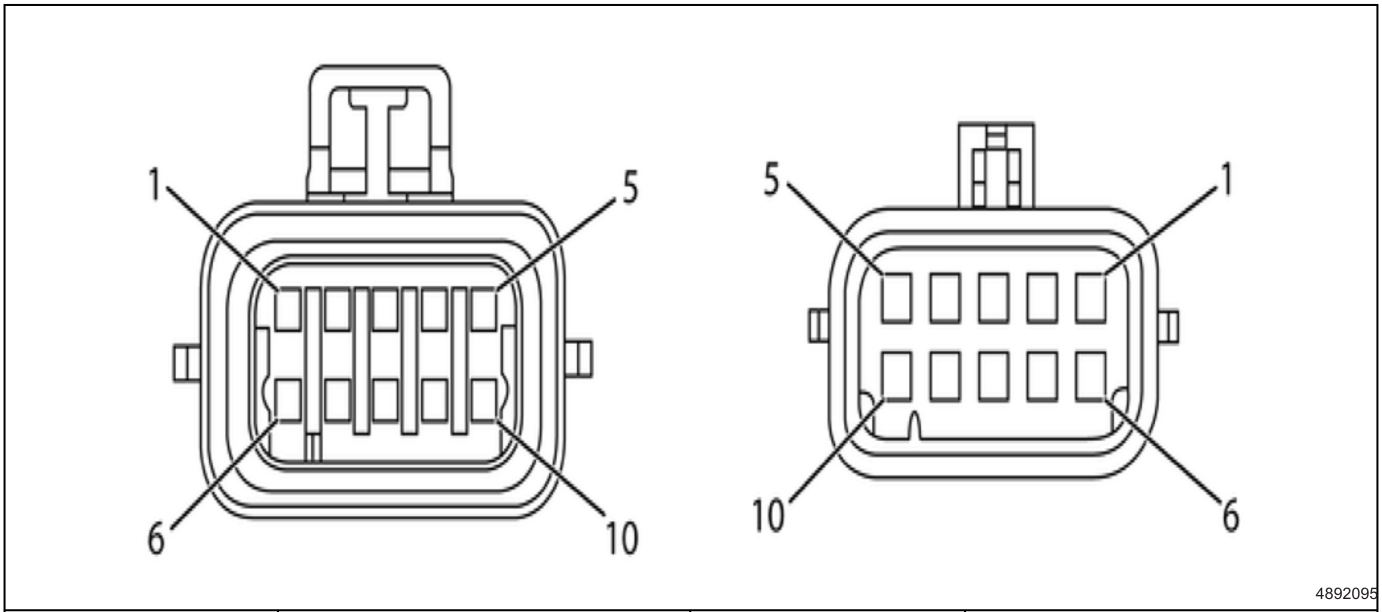
Behind the Storage Compartment, Right Side of the Radio


H-195
B-457
B-455
B-456
H-234
B-452
B-454
B-453
B-451
4891103

H-246 Body Builder Connector


1
5
6
10
5
1
10
6
4892095

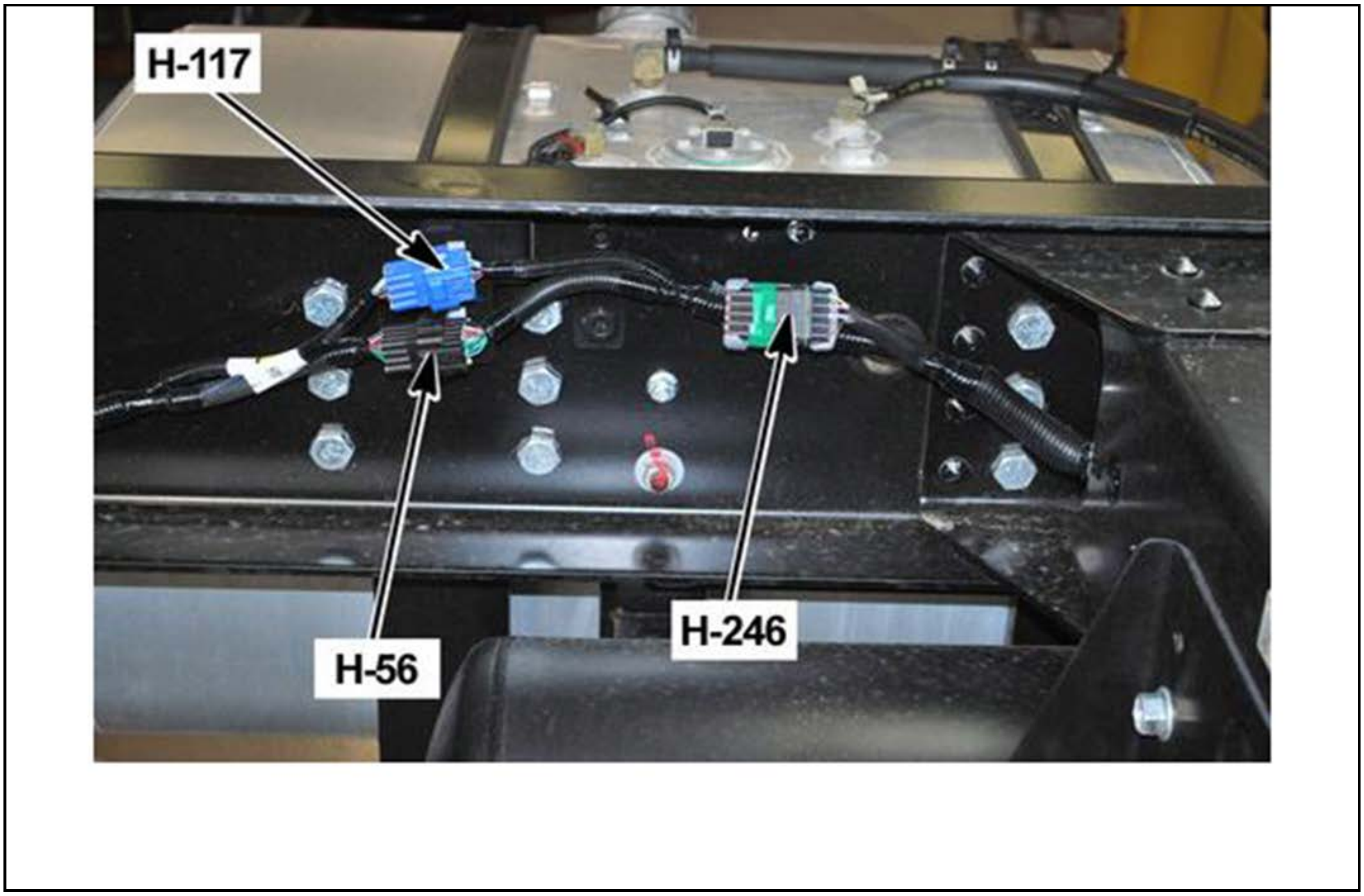
Connector Part Information	• 12177081 • 10-Way F (BLK)			Connector Part Information	• 12045808 • 10-Way M • Body Builder Installed		
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
1	BRN	OA044C	Range Inhibitor Switch to TCM	1	—	—	—



4892095

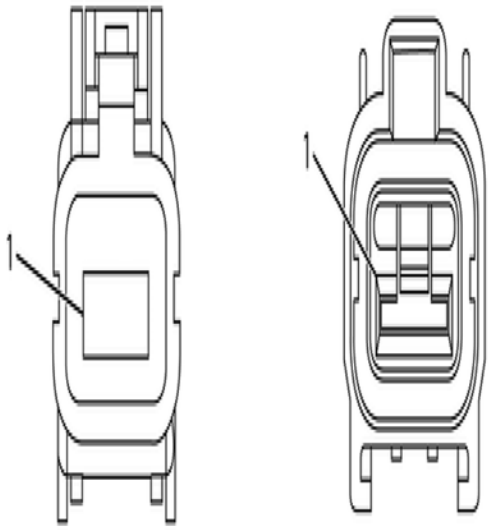
Connector Part Information		• 12177081 • 10-Way F (BLK)		Connector Part Information		• 12045808 • 10-Way M • Body Builder Installed	
Pin	**Wire Color**	**Circuit No**	**Function**	**Pin**	**Wire Color**	**Circuit No**	**Function**
2	—	—	Not Used	2	—	—	—
3	BLK	OA045C	Analog Sensor Signal Return to TCM	3	—	—	—
4	BLK	OA046C	Digital Return to TCM	4	—	—	—
5	LT BLU	OA047C	PTO Output to TCM	5	—	—	—
6	—	—	Not Used	6	—	—	—
7	—	—	Not Used	7	—	—	—
8	WHT	OA051C	PTO Switch to TCM and H-104 PTO Connector	8	—	—	—
9	PNK	OA041C	Auto Neutral to TCM	9	—	—	—
10	YEL	OA040C	Range Indicator to TCM	10	—	—	—

Left Inner Frame Rail, Next to the Fuel Tank



4891901

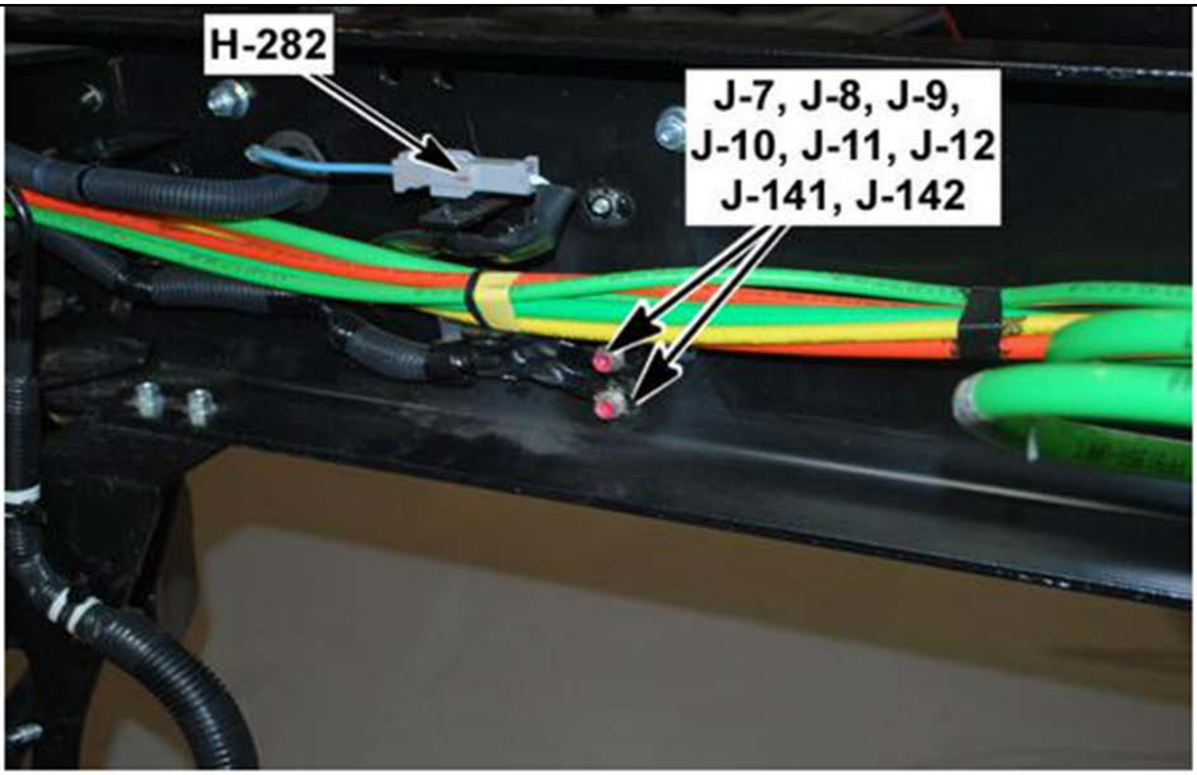
H-282 Battery Positive Cable to Front Chassis Harness



4892307

Connector Part Information	• 7123-4210-40 • 1-Way F (GRY)			Connector Part Information	• 7322-4210-40 • 1-Way M (GRY)		
Pin	Wire Color	Circuit No	Function	Pin	Wire Color	Circuit No	Function
1	Blue	—	Fusible Link	1	WHT	PA001C	Voltage Feed for Fuse/Relay Center (Battery Bus)

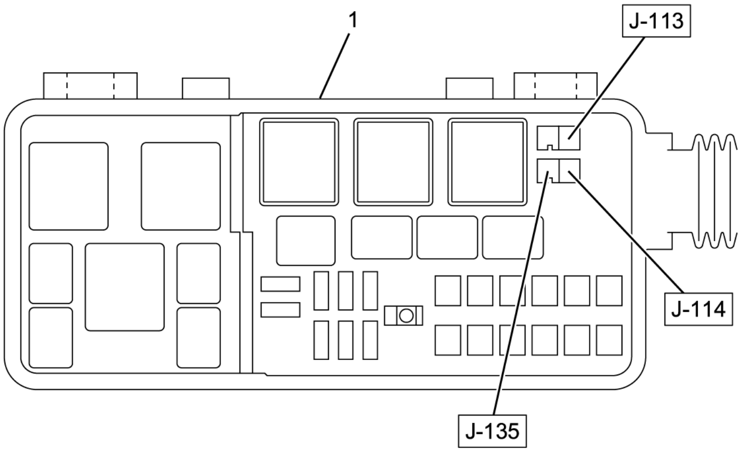
Right Inner Frame Rail, Next to the Batteries


H-282
J-7, J-8, J-9,
J-10, J-11, J-12
J-141, J-142

4892315

Component Locator

Diode Location


1
J-113
J-114
J-135

Connector No.	Usage
J-113	ECM
J-114	A/C
J-135	ECM

LNWA8DSF000101

4495937

Legend

(1) Relay Box

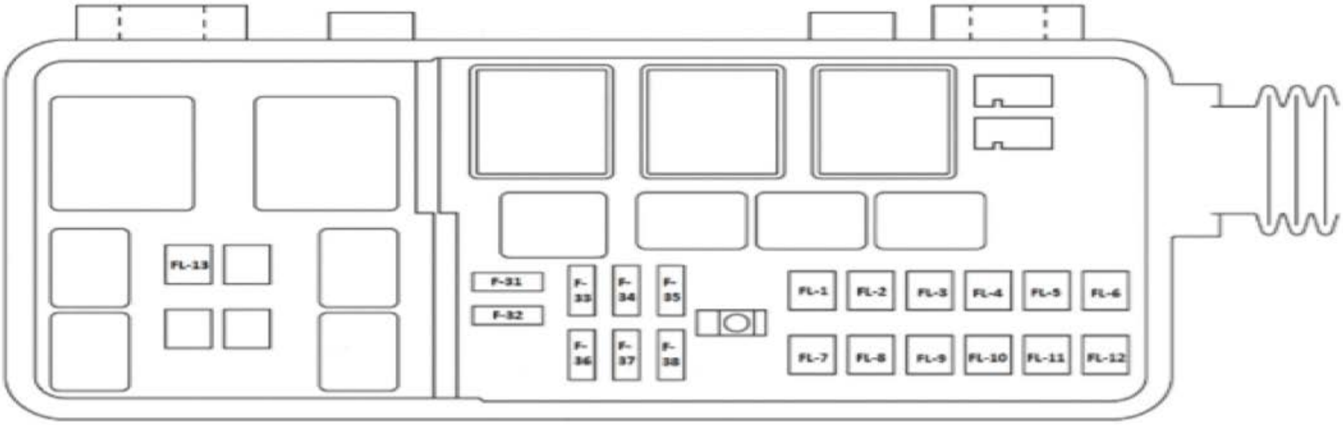
Fuse, Fusible Link, and Slow-Blow Fuse Location

Reference Table of Fuse

Fuse No.	Capacity	Indication on Label	Main Parts(Load)
F-1	—	—	—
F-2	—	—	—
F-3	10A	ROOM LAMP,AUDIO	Audio, Data Link Connector, Dome Light, Rear Dome Light
F-4	15A	DOOR LOCK	Door Lock Relay
F-5	15A	TRAILER BRAKE	Trailer Stop Relay
F-6	25A	P/WINDOW	Front Power Window RH Switch, Front Power Window LH Switch
F-7	10A	ABS	Electronic Hydraulic Control Unit (EHCU)
F-8	25A	WIPER	Wiper Main Relay, Wiper High Low Relay, Front Wiper Motor Front Washer Motor
F-9	10A	H/LAMP LO (LH)	Headlight LH, DRL Control Unit
F-10	10A	LMAPS (BATT)	DRL Relay, Headlight High Relay, Headlight Low Relay, Tail Relay
F-11	10A	H/LAMP LO (RH)	Headlight RH, DRL Control Unit
F-12	10A	BRAKE LAMPS	Stoplight Relay
F-13	10A	STARTER	P/N Start Relay
F-14	10A	H/LAMP HI (LH)	IP Cluster, Headlight LH, Headlight High Relay
F-15	10A	H/LAMP HI (RH)	Headlight RH, Headlight High Relay
F-16	15A	MIRROR HEATER	Blower Relay, Power Window Relay, Mirror Heater Switch
F-17	—	—	—
F-18	10A	IGNITION1	PTO Enable Relay, Intermittent Relay, Vacuum Pump Relay, Inhibitor Switch, Keyless Entry Control Unit
F-19	—	—	—
F-20	10A	ECM	Engine Control Module (ECM), Cruise Main Switch, Combination Switch Stoplight Switch
F-21	10A	METER	IP Cluster, Key On Relay, P/N Start Relay, TCM Relay Vacuum Pump Relay, Vehicle Speed Sensor, Flasher Unit Electronic Hydraulic Control Unit (EHCU), Cornering Light Relay PTO Switch 2
F-22	10A	ECU (BATT)	IP Cluster, Check Miles and Check Oil Level Switch, TCM Relay Transmission Control Module (TCM), Engine Control Module (ECM)
F-23	10A	MIRROR	Rear Body Switch, Rear Body Connector, Mimamori
F-24	15A	AUDIO, ACC	Audio, Cigarette Lighter Relay, Power ACC Relay
F-25	15A	HORN	Horn Relay
F-26	15A	TURN, HAZARD	Flasher Unit
F-27	10A	TAIL LAMPS	ID 1, ID 2, ID 3, Marker 1, Marker 2, Marker Light Relay Side Marker RH, Side Marker LH,
F-28	10A	ILLUMINATIONS	Check Miles and Check Oil Level Switch, Door Lock Switch, Audio Cigarette Illumination, Cruise Main Switch, Rear Dome Light Switch1 DPF Regeneration Switch, PTO Engine Speed Control Switch Mirror Heater Switch, Illumination Control Switch, Overdrive Off Switch IP Cluster, Hazard Switch, PTO Switch 2
F-29	10A	CORNERING LAMPS	Cornering Light Relay
F-30	10A	AIR CONDITIONER	Blower Relay, Blower Motor, Magnetic Clutch Relay Defroster Switch, A/C Switch
F-31	20A	MARKER LAMP	Marker Light Relay
F-32	20A	TAIL MAIN	Tail Relay

Reference Table of Fuse (cont'd)

Fuse No.	Capacity	Indication on Label	Main Parts(Load)
F-33	10A	ECM MAIN	ECM Main Relay, Engine Control Module, Exhaust Brake Cut Relay MAF and IAT 1 Sensor, VNT Control Module
F-33	—	—	—
F-34	20A	SCR	Diesel Exhaust Fluid (DEF) Control Module, Heater Valve Relay, NOx and Diesel Exhaust Fluid (DEF) Sensor Relay
F-35	15A	PM SENSOR	PM Sensor, Glow Plug Control Module
F-36	15A	RR DOME LIGHT	Rear Manufacture Connector
F-37	20A	CONDENSER FAN	Condenser Fan Relay
F-38	10A	AIR CONDITIONER	Magnetic Clutch Relay
F-39 (D-1)	20A	CIGAR	Rear Heater, Cigarette Lighter
F-40 (D-2)	15A	ACCESSORIES SOCKET	ACC Socket
F-41 (D-3)	20A	POWER SOURCE	Power Source



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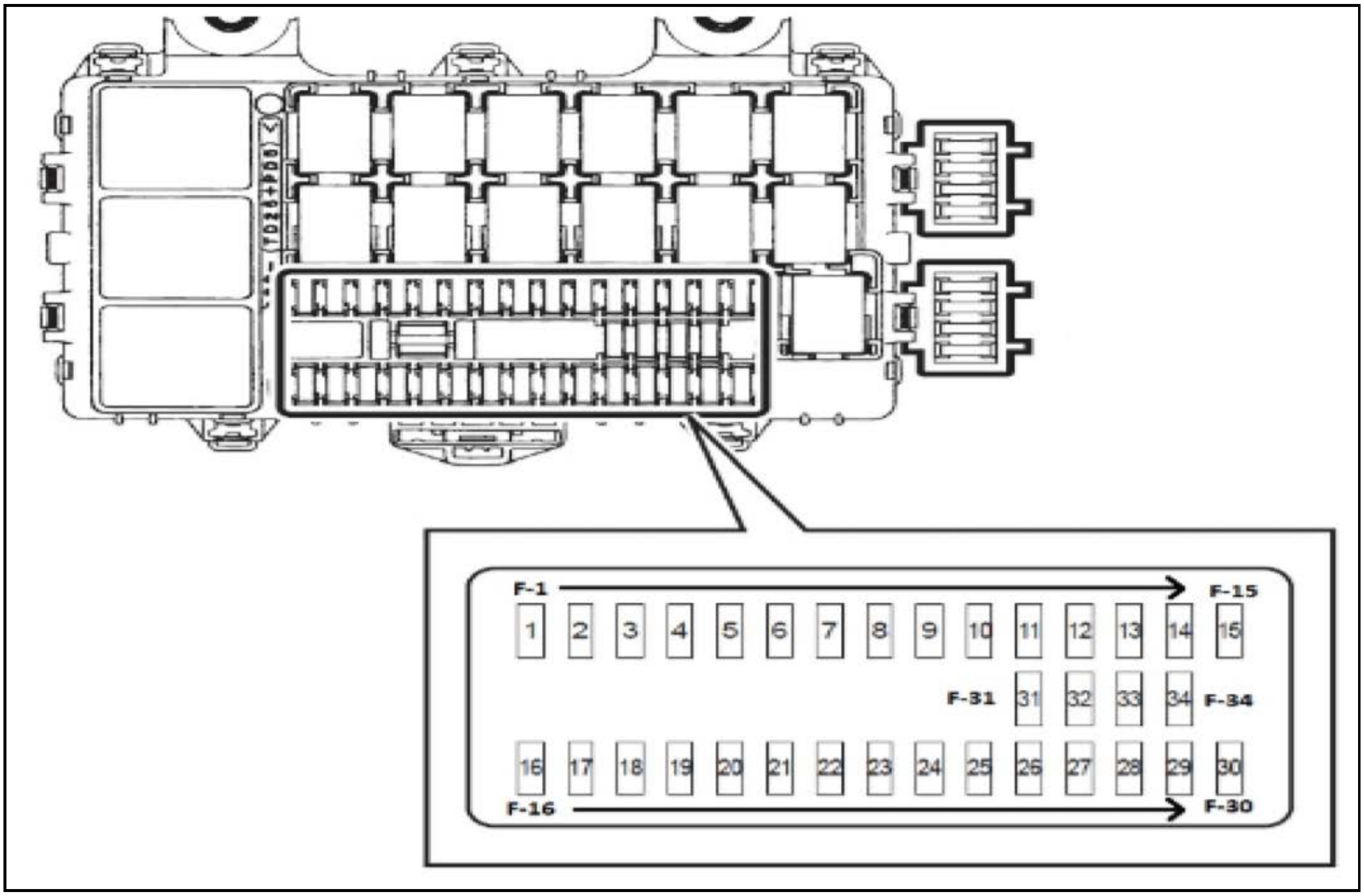
Fuse/Relay Center

Fuse No.	Capacity	Fuse Name	Main Parts(Load)
FL-1	40A	ECM	To splice S3A (ECM Main Relay, Fuse F-35)
FL-2	60A	Starter	Starter Relay X-17
FL-3	50A	Power ACC	Power ACC Relay B-212
FL-4	60A	Glow	Glow Plug Control Module (GPCM)

Fuse/Relay Center (cont'd)

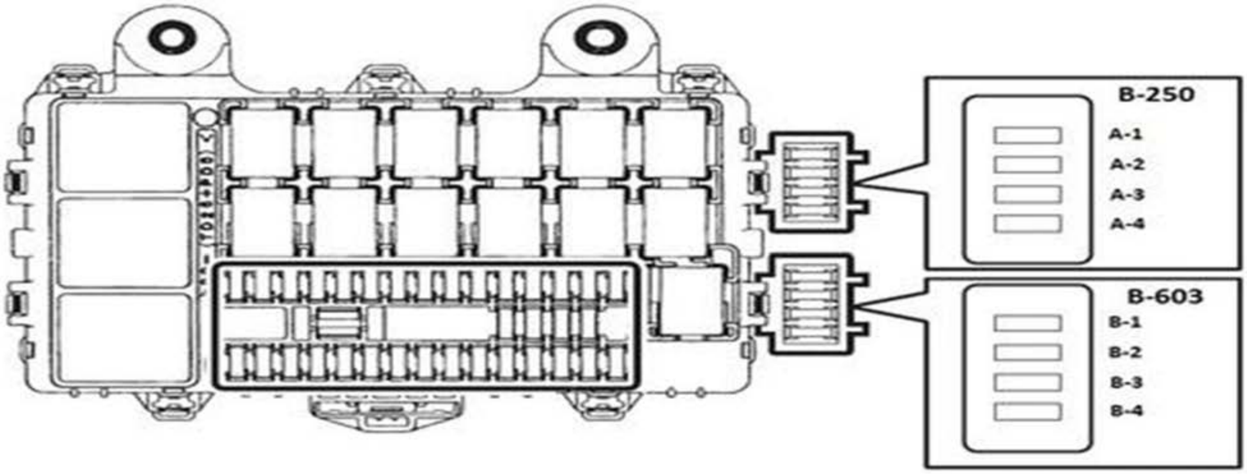
Fuse No.	Capacity	Fuse Name	Main Parts(Load)
FL-5	40A	Mirror Heater	To Splice S27
FL-6	40A	AM1	To Splice S26
FL-7	50A	HVAC	Blower Relay B-215
FL-8	30A	Headlamps	To B-378 Splice Pack
FL-9	30A	Rear Dome Lamp	Rear Dome Lamp Relay X-22
FL-10	30A	Wiper	Key ON Relay X-3, F-25 and F-26 Fuses in the Fuse/Relay Center (Cab)
FL-11	40A	ABS	Electronic Brake Control Module (EBCM)
FL-12	40A	AM2	To B-378 Splice Pack
FL-13	20A	Fuel Heater	Fuel Heater Relay X-30
F-31	20A	Marker Lamp	Marker Lamp Relay
F-32	20A	Tail Main	B-378 Splice Pack
F-33	15A	ECM Main	Exhaust Brake Solenoid Valve, Particulate Matter Sensor, MAF and IAT 1 Sensor, Variable Nozzle Turbocharger (VNT) Control Module, Exhaust Gas Recirculation (EGR) Valve
F-34	20A	SCR	NOx and DEF Sensor Relay X-19, Diesel Exhaust Fluid Control Module, Heater Valve Relay (SCR) X-23
F-35	15A	TCM	B-376 Splice Pack, Engine Control Module (ECM)
F-36	15A	Power Source	To Splice S6A
F-37	20A	Condenser Fan	Condenser Fan Relay B-218
F-38	10A	Air Conditioner	Compressor Clutch Relay X-20



4894068

Fuse/Relay Center (Cab) "F" Fuses

Fuse No.	Capacity	Indication on Label	Main Parts(Load)
F-1	25A	—	—
F-2	—	—	—
F-3	10A	ROOM LAMP,AUDIO	Radio, Data Link Connector (DLC), Dome Lamp, Fleet Management System (FMS), Telematics Connector H-234
F-4	15A	DOOR LOCK	Door Lock Relay B-227, Remote Keyless Entry (RKE) Module
F-5	15A	—	—
F-6	25A	P/WINDOW	Front Power Window RH Switch, Front Power Window LH Switch
F-7	10A	ABS	Electronic Brake Control Module (EBCM)
F-8	25A	WIPER	Wiper Main Relay X-6, Wiper High/Low Relay X-8, Front Wiper Motor, Front Washer Motor
F-9	10A	H/LAMP LO (LH)	Headlamp LH, Daytime Running Lamp (DRL) Module
F-10	10A	LAMPS (BATT)	Daytime Running Lamp (DRL) Module Relay X-2, Headlamp High Relay X-15, Headlamp Low Relay X-13, Tail Lamp Relay X-16
F-11	10A	H/LAMP LO (RH)	Headlamp RH, Daytime Running Lamp (DRL) Module
F-12	10A	BRAKE LAMPS	Stop Lamp Relay X-1
F-13	10A	STARTER	Starter Relay X-17
F-14	10A	H/LAMP HI (LH)	Instrument Panel Cluster (IPC), Headlamp LH
F-15	10A	H/LAMP HI (RH)	Headlamp RH
F-16	15A	MIRROR HEATER	Air Dryer, Power Window Relay, Mirror Heater Switch
F-17	10A	IGNITION 2	Blower Relay B-215
F-18	10A	IGNITION 1	PTO Switch, Upfitter Connector (Remote PTO Switch), Intermittent Wiper Relay B-210, Health Report RS232 Connector, Shift Lever, Remote Keyless Entry (RKE) Module, Reverse Lamp Relay B-273
F-19	—	—	—
F-20	10A	ECM	Reverse Lamp Relay B-271, Wiper/Exhaust Brake Switch, Cruise Control Switch, Combination switch, Transmission Control Module (TCM), Radiator Level Control, DPF Regen Switch, Engine Control Module (ECM), Diesel Exhaust Fluid (DEF) Control Module
F-21	10A	METER	Instrument Panel Cluster (IPC), Key ON Relay, Cornering Lamp Relay, Flasher Module, Fleet Management System (FMS) Module, Telematics Connector H-234, Mimamori Module
F-22	10A	ECU (BATT)	Instrument Panel Cluster (IPC), Health Report RS232 Connector, Miles/Oil Level Check Switch, Mimamori Module
F-23	10A	MIRROR	Mimamori Module, Power Mirror Switch
F-24	15A	ACC	Radio, Cigar Lighter Relay B-272, Power ACC Relay B-212, Shift Lever
F-25	15A	HORN	Horn Relay X-7
F-26	15A	TURN, HAZARD	Flasher Module
F-27	10A	TAIL LAMPS	Front Park Lamp (RH) and (LH), Side Marker Lamp (LH) and (RH), Marker Lamps 1 and 2, Clearance Lamps 1, 2 and 3, Marker Lamp Relay X-26, Rear Combination Lamps (LH) and (RH), License Plate Lamp
F-28	10A	ILLUMINATIONS	PTO Up/Down Switch, HVAC Control Panel, Instrument Panel Cluster (IPC), PTO Switch, Miles/Oil Level Check Switch, Radio, DPF Regen Switch, Cruise Main Switch, Rear Dome Lamp Switch, Hazard Switch, Door Lock Switch, Shift Lever, Dimmer Control, Heated Mirror Switch
F-29	10A	CORNERING LAMPS	Cornering Light Relay X-5
F-30	10A	AIR CONDITIONER	Compressor Clutch Relay, Defroster Switch, A/C Switch, Cornering Lamp Relay X-5



4894071

Fuse/Relay Center (Cab) "A" Fuses

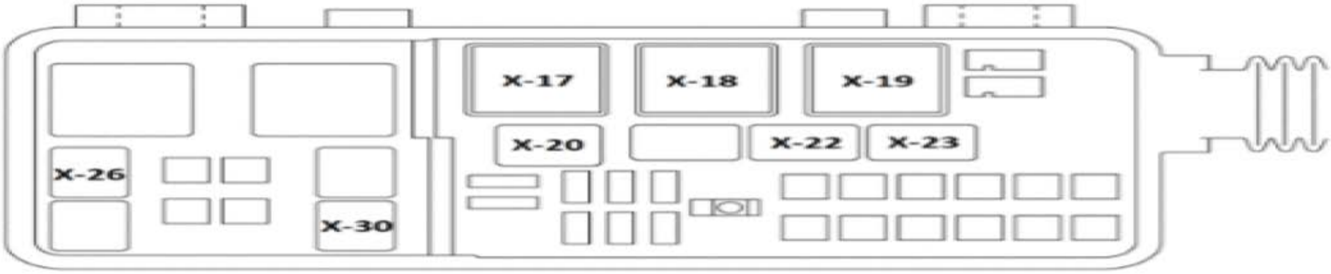
Fuse No.	Capacity	Indication on Label	Main Parts(Load)
A-1	20A	CIGAR	Power Outlet Upper
A-2	15A	ACCESSORIES SOCKET	Power Outlet Lower
A-3	20A	POWER SOURCE	Power Source Connector B-220
A-4	10A	POWER SOURCE	Rear Combination Lamps (LH) and (RH)

Fuse/Relay Center (Cab) "B" Fuses

Fuse No.	Capacity	Indication on Label	Main Parts(Load)
B-1	20A	MIRROR HEATER DR	Mirror Heater Relay (LH) B-276
B-2	10A	SERVICE/REVERSE	NOT USED, Stops at inline H-195
B-3	10A	AUDIO/REVERSE	Radio
B-4	20A	MIRROR HEATER AS	Mirror Heater Relay (RH) B-275

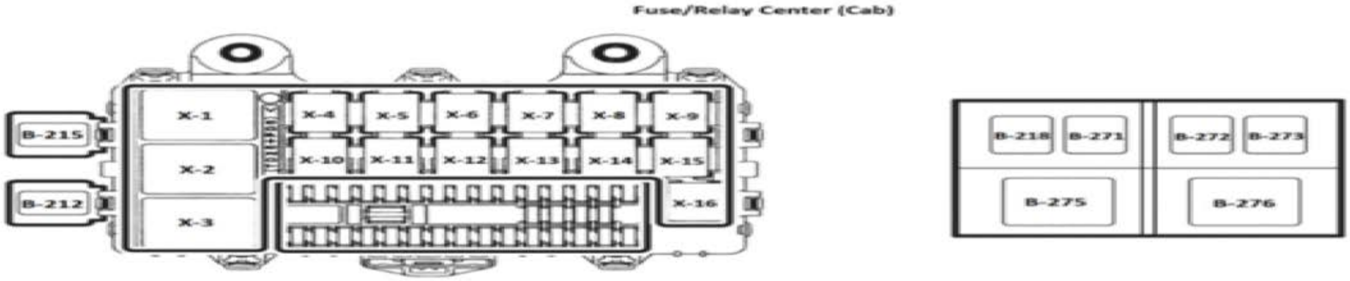
Relay Location

Fuse/Relay Center, Left Outer Frame Rail Behind Front Tire


X-17
X-18
X-19
X-20
X-22
X-23
X-26
X-30

4894189

In the Center of the I/P, Left Side of the Fuse/Relay Center (Cab)


Fuse/Relay Center (Cab)
B-215
B-212
X-1
X-2
X-3
X-4
X-5
X-6
X-7
X-8
X-9
X-10
X-11
X-12
X-13
X-14
X-15
X-16
B-218
B-271
B-272
B-273
B-275
B-276

4894191

Relay List

Connector No.	Relay Name
X-1	Stop Lamp
X-2	Daytime Running Light
X-3	Key On
X-4	—
X-5	Cornering Lamp
X-6	Wiper Main
X-7	Horn
X-8	Wiper High/ Low

Relay List (cont'd)

Connector No.	Relay Name
X-9	—
X-10	—
X-11	—
X-12	Front Power Window
X-13	Headlight(Low)
X-14	—
X-15	Headlight(High)
X-16	Taillight
X-17	Starter

Relay List (cont'd)

Connector No.	Relay Name
X-18	ECM Main
X-19	NOx and Diesel Exhaust Fluid (DEF) Sensor
X-20	Compressor Clutch
X-21	—
X-22	Rear Dome Light
X-23	Heater Valve (SCR)
X-26	Marker Lamp
X-30	Fuel Heater
B-212	Power ACC
B-215	Blower Motor
B-218	Condenser Fan
B-271	Stop Lamp Switch
	Cornering Light
B-272	Cigar Lighter
B-273	Reverse Lamp
	Starter Cut
B-275	Mirror Heater (RH)
B-276	Mirror Heater (LH)

Diagnostic Information and Procedures

Instrumentation and Driver Information Diagnosis Introduction

Warning Light and Indicator Light (Led) Display Test

The instrument panel cluster verifies if the system functions properly when the ignition switch is ON.

When normal, the warning lights and indicator lights (LED) illuminate or flash for a certain period of time as follows:

ABS Warning Light

It illuminates for 2 seconds, and then turns OFF.

Check Engine Warning Light

It will turn OFF after illuminating for 5 seconds or after the engine is started.

Cruise Control Main Indicator Light

It will illuminate for 5 seconds, and then turn OFF.

Cruise Control Set Indicator Light

It will illuminate for 5 seconds, and then turn OFF.

Brake System Warning Light

It turns off after the engine starts.

Oil Pressure Warning Light

It turns off after the engine starts.

Generator Warning Light

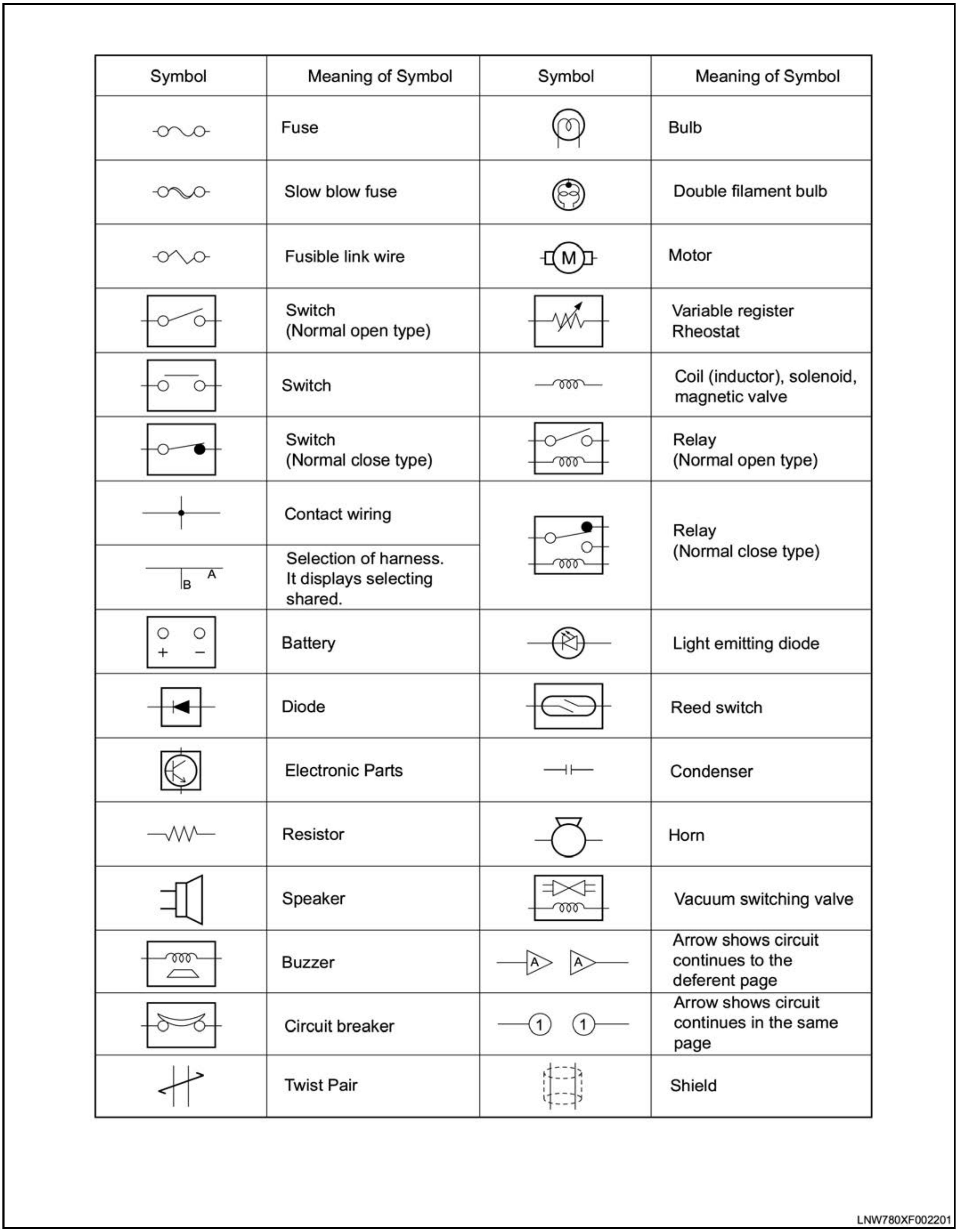
It turns off after the engine starts.

Multi-Information Display Test

When the ignition switch is turned ON, the instrument panel cluster verifies if the system functions properly.

If normal, the multi-information display alternately displays the DPF automatic regeneration in progress indicator and the DPF manual regeneration in progress indicator for 30 seconds or until the engine starts.

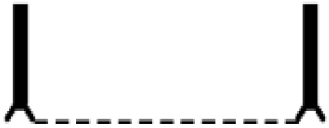
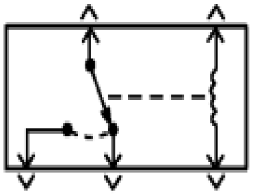
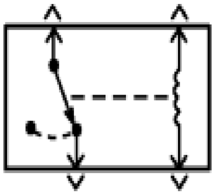
Electrical Schematic Symbols

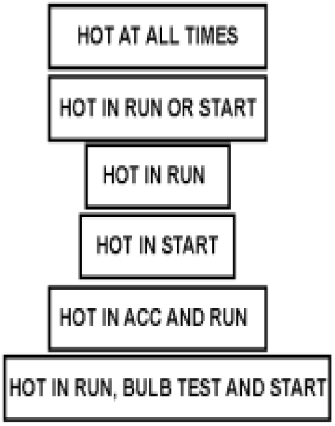
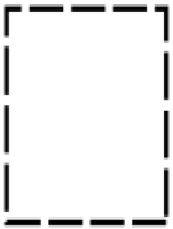
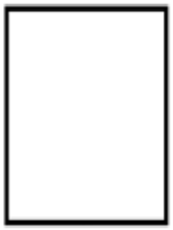


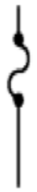
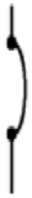
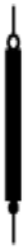
Symbol	Meaning of Symbol	Symbol	Meaning of Symbol
	Fuse		Bulb
	Slow blow fuse		Double filament bulb
	Fusible link wire	M	Motor
	Switch (Normal open type)		Variable register Rheostat
	Switch		Coil (inductor), solenoid, magnetic valve
	Switch (Normal close type)		Relay (Normal open type)
	Contact wiring		Relay (Normal close type)
B A	Selection of harness. It displays selecting shared.		
+ −	Battery		Light emitting diode
	Diode		Reed switch
	Electronic Parts		Condenser
	Resistor		Horn
	Speaker		Vacuum switching valve
	Buzzer	A A	Arrow shows circuit continues to the deferent page
	Circuit breaker	1 1	Arrow shows circuit continues in the same page
	Twist Pair		Shield

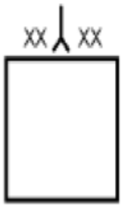
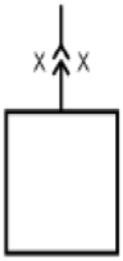
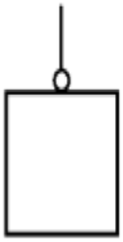
LNW780XF002201

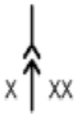
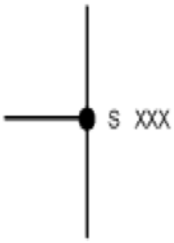
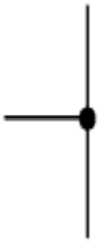
4497539

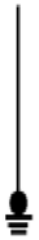
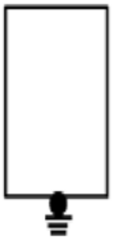
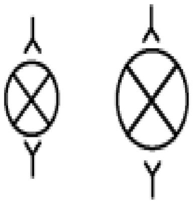
Symbol	Description
 4894272	Circuits or Wires Within The Same Connector
 4894325	Single Pole Double Throw Relay
 4894329	Single Pole Single Throw Relay

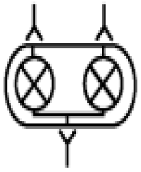
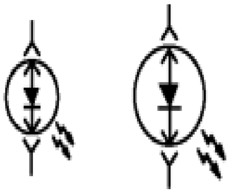
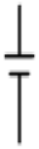
Symbol	Description
 HOT AT ALL TIMES HOT IN RUN OR START HOT IN RUN HOT IN START HOT IN ACC AND RUN HOT IN RUN, BULB TEST AND START 4894335	Voltage Indicator Boxes These Boxes Are Used On Schematics To Indicate When Voltage Is Present At A Fuse
 4894339	Partial Component When A Component Is Represented In A Dashed Box, The Component Or Its Wiring Is Not Shown In Its Entirety
 4894343	Entire Component When A Component Is Represented In A Solid Box The Component Or Its Wiring Is Shown In Its Entirety

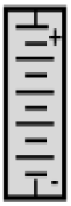
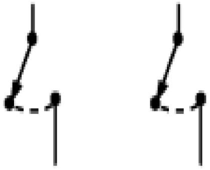
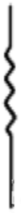
Symbol	Description
 4894349	Fuse
 4894354	Circuit Breaker
 4894358	Fusible Link

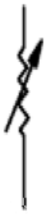
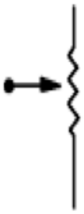
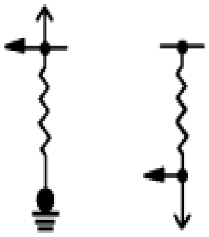
Symbol	Description
 4894361	Connector Attached To Component
 4894365	Pigtail Connector
 4894368	Bold On Or Screw On Eyelet Terminal

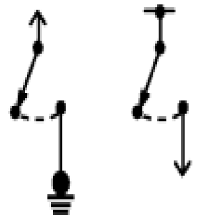
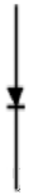
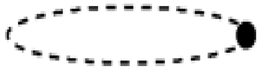
Symbol	Description
 4894370	Inline Harness Connector
 4894371	External Harness Splice
 4894372	Internal Harness Splice

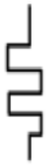
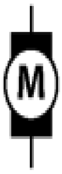
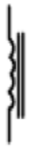
Symbol	Description
 4894373	Chassis Ground
 4894375	Case Ground
 4894376	Single Filament Light Bulbs

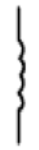
Symbol	Description
 4894380	Double Filament Light Bulb
 4894387	Light Emitting Diodes
 4894389	Capacitor

Symbol	Description
 4894392	Battery
 4894397	Switches
 4894412	Resistor

Symbol	Description
 4894419	Variable Resistor
 4894424	Position Sensor
 4894429	I/O Resistors

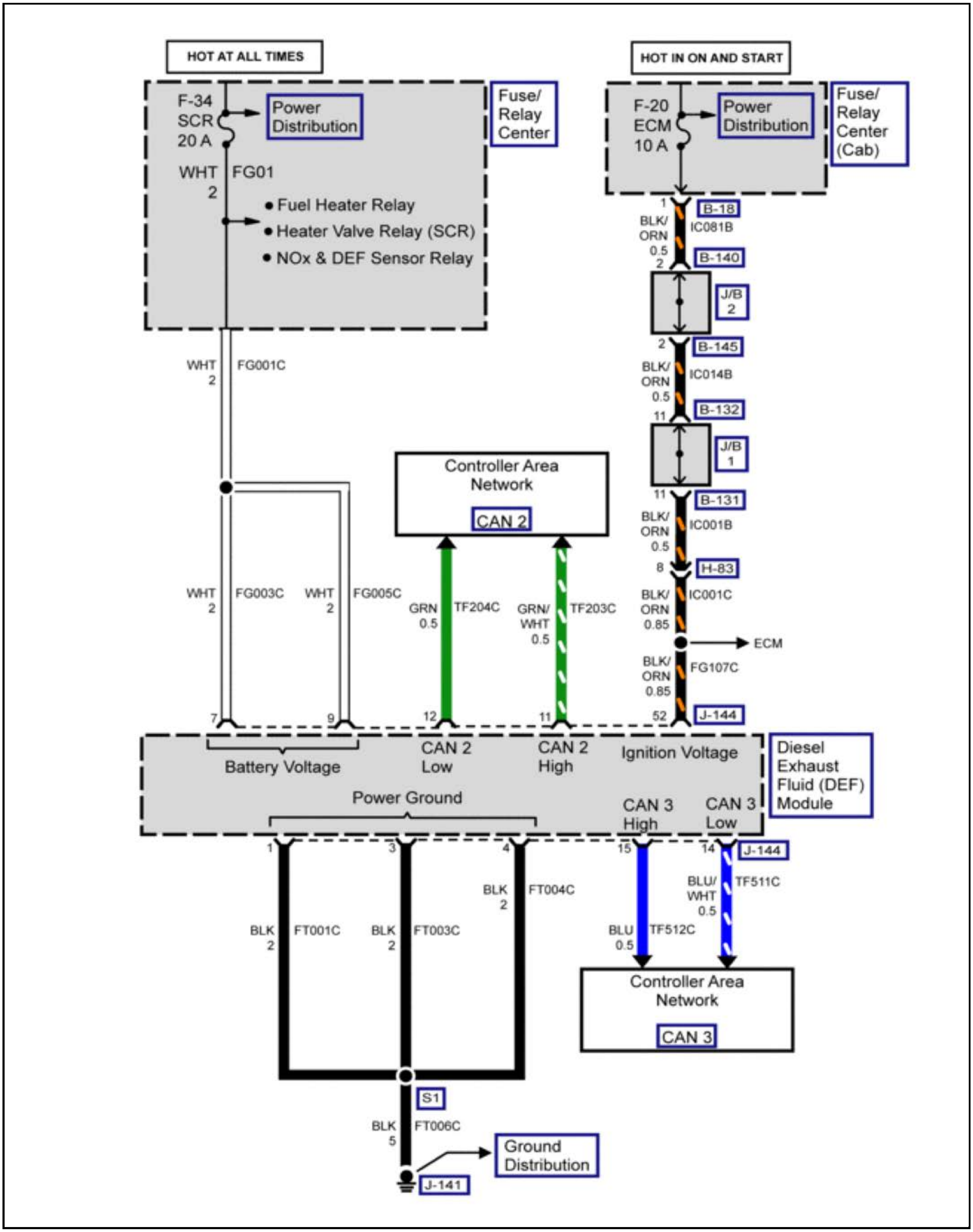
Symbol	Description
 4894432	I/O Switches
 4894437	Diode
 4894442	Shielded Circuit

Symbol	Description
 4894443	Heating Elements
 4894447	Motor
 4894451	Solenoid

Symbol	Description
 4894454	Coil

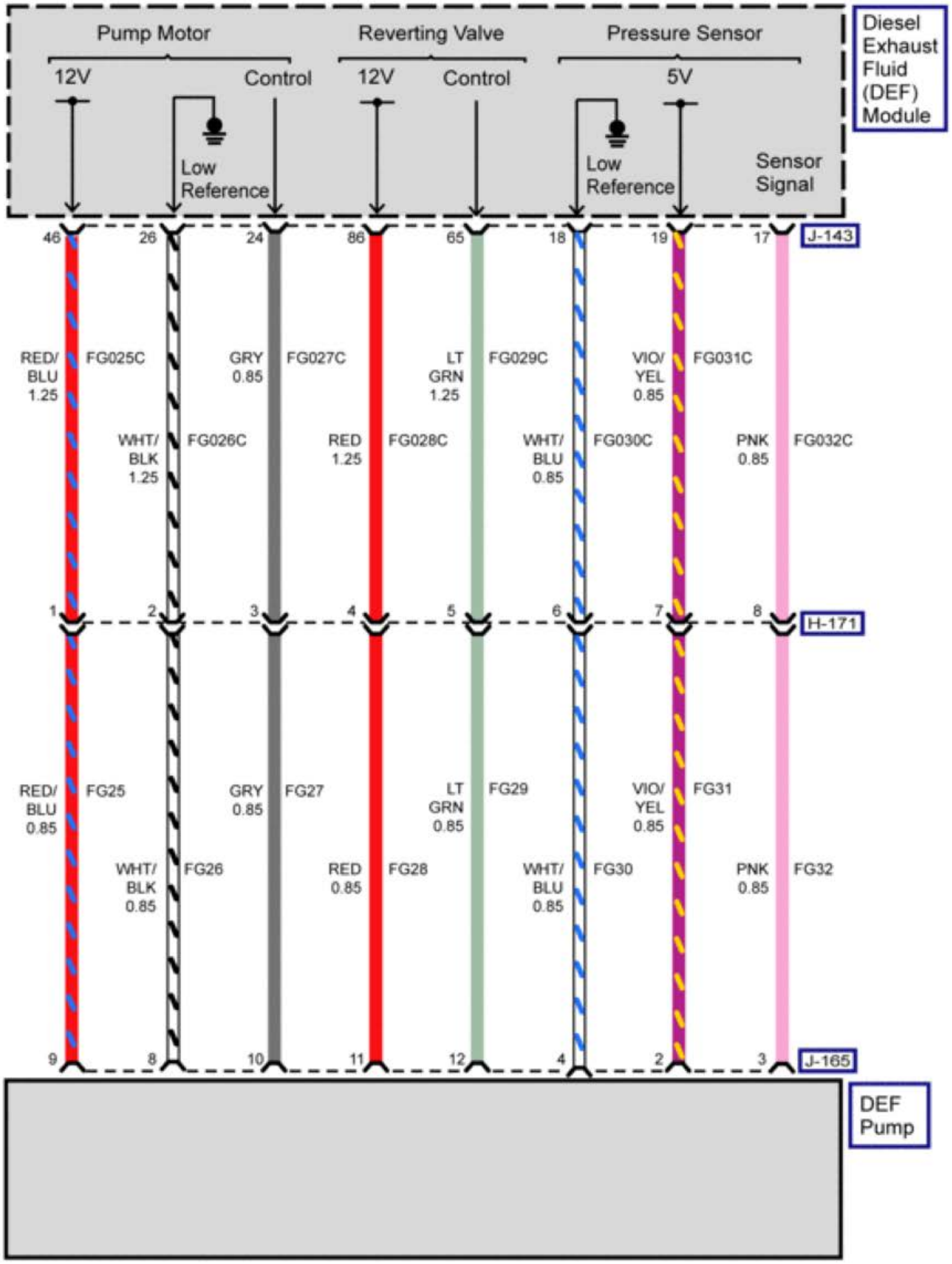
Schematic and Routing Diagrams

Selective Catalyst Reduction (SCR) Schematics (DEF Module Power, Ground, and Communication)


HOT AT ALL TIMES
HOT IN ON AND START
F-34
SCR
20 A
Power Distribution
Fuse/ Relay Center
F-20
ECM
10 A
Power Distribution
Fuse/ Relay Center (Cab)
WHT 2 FG01
Fuel Heater Relay
Heater Valve Relay (SCR)
NOx & DEF Sensor Relay
B-18
BLK/ ORN 0.5 IC081B
B-140
J/B 2
B-145
BLK/ ORN 0.5 IC014B
B-132
J/B 1
B-131
BLK/ ORN 0.5 IC001B
H-83
BLK/ ORN 0.85 IC001C
ECM
BLK/ ORN 0.85 FG107C
J-144
WHT 2 FG001C
Controller Area Network
CAN 2
WHT 2 FG003C
WHT 2 FG005C
GRN 0.5 TF204C
GRN/ WHT 0.5 TF203C
7
9
12
11
52
Battery Voltage
CAN 2 Low
CAN 2 High
Ignition Voltage
Power Ground
CAN 3 High
CAN 3 Low
Diesel Exhaust Fluid (DEF) Module
1
3
4
15
14
J-144
BLK 2 FT004C
BLU/ WHT 0.5 TF511C
BLK 2 FT001C
BLK 2 FT003C
BLU 0.5 TF512C
Controller Area Network
CAN 3
S1
BLK 5 FT006C
Ground Distribution
J-141

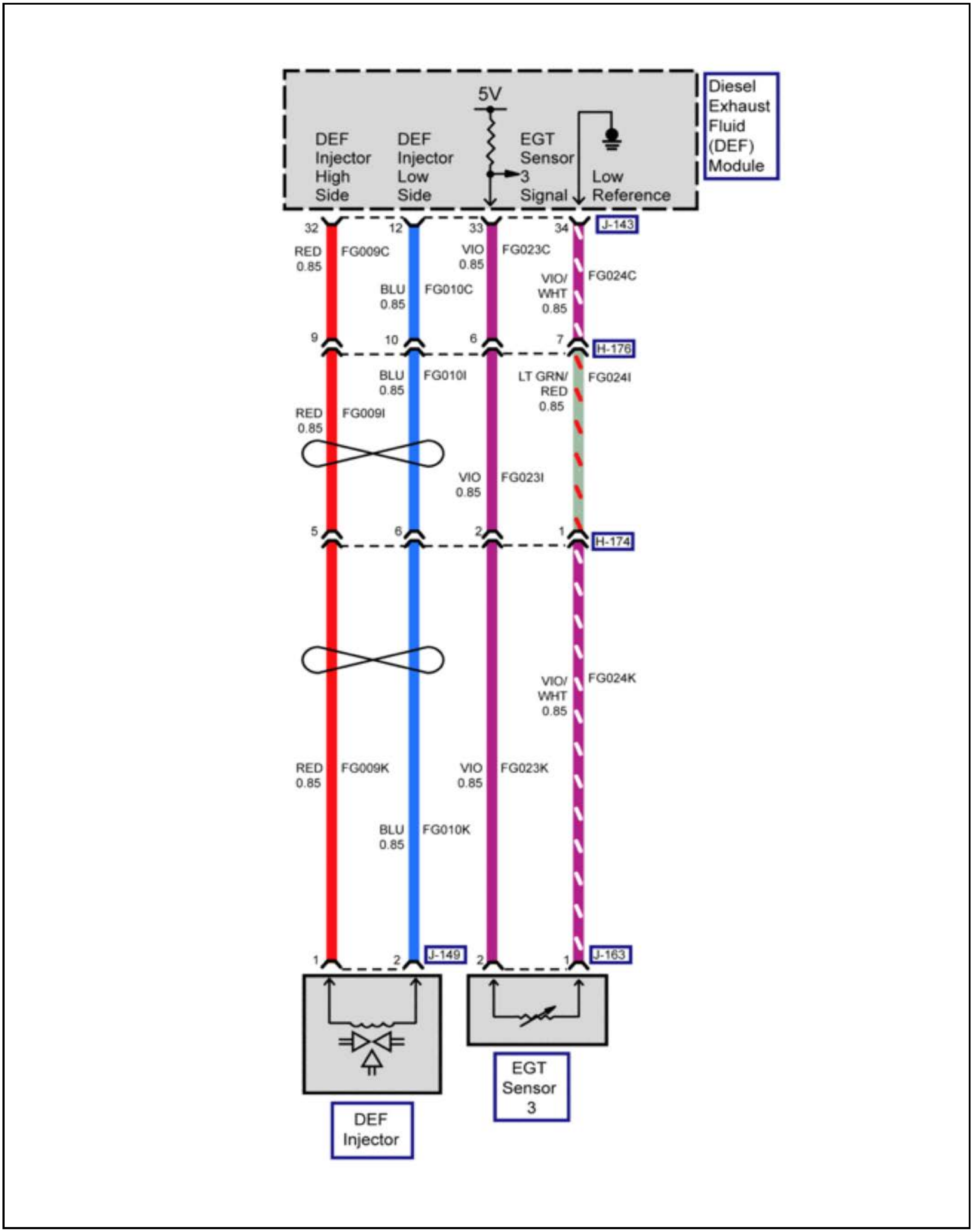
4892713

Selective Catalyst Reduction (SCR) Schematics (DEF Supply Pump)


Pump Motor
12V
Control
Low Reference
Reverting Valve
12V
Control
Pressure Sensor
5V
Low Reference
Sensor Signal
Diesel Exhaust Fluid (DEF) Module
46
26
24
86
65
18
19
17
J-143
RED/ BLU 1.25
FG025C
WHT/ BLK 1.25
FG026C
GRY 0.85
FG027C
RED 1.25
FG028C
LT GRN 1.25
FG029C
WHT/ BLU 0.85
FG030C
VIO/ YEL 0.85
FG031C
PNK 0.85
FG032C
1
2
3
4
5
6
7
8
H-171
RED/ BLU 0.85
FG25
WHT/ BLK 0.85
FG26
GRY 0.85
FG27
RED 0.85
FG28
LT GRN 0.85
FG29
WHT/ BLU 0.85
FG30
VIO/ YEL 0.85
FG31
PNK 0.85
FG32
9
8
10
11
12
4
2
3
J-165
DEF Pump

4892717

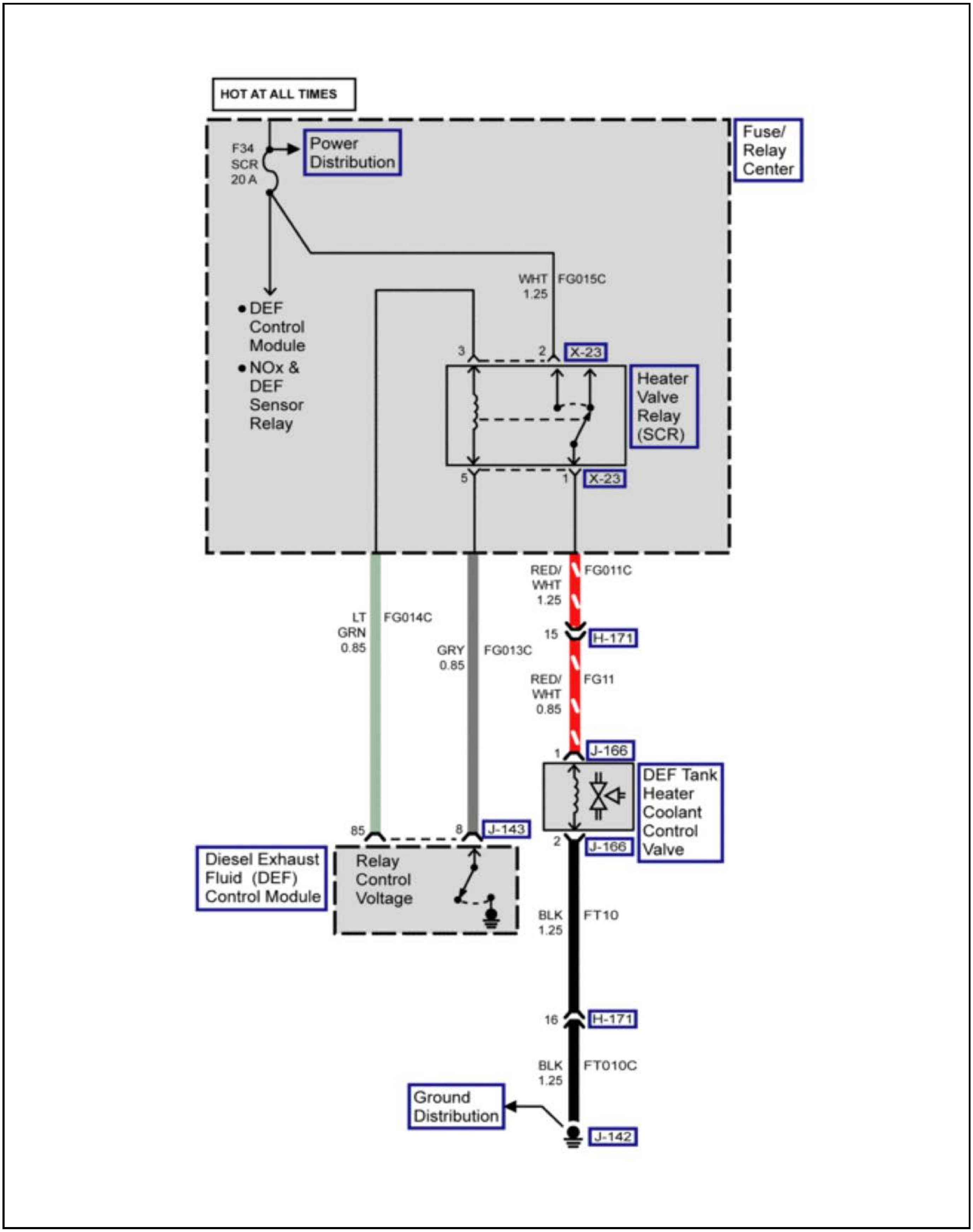
Selective Catalyst Reduction (SCR) Schematics (DEF Injector and EGT Sensor 3)



5V
DEF Injector High Side
DEF Injector Low Side
EGT Sensor 3 Signal
Low Reference
Diesel Exhaust Fluid (DEF) Module
32
12
33
34
J-143
RED 0.85
FG009C
BLU 0.85
FG010C
VIO 0.85
FG023C
VIO/ WHT 0.85
FG024C
9
10
6
7
H-176
BLU 0.85
FG010I
LT GRN/ RED 0.85
FG024I
RED 0.85
FG009I
VIO 0.85
FG023I
5
6
2
1
H-174
VIO/ WHT 0.85
FG024K
RED 0.85
FG009K
VIO 0.85
FG023K
BLU 0.85
FG010K
1
2
J-149
2
1
J-163
DEF Injector
EGT Sensor 3

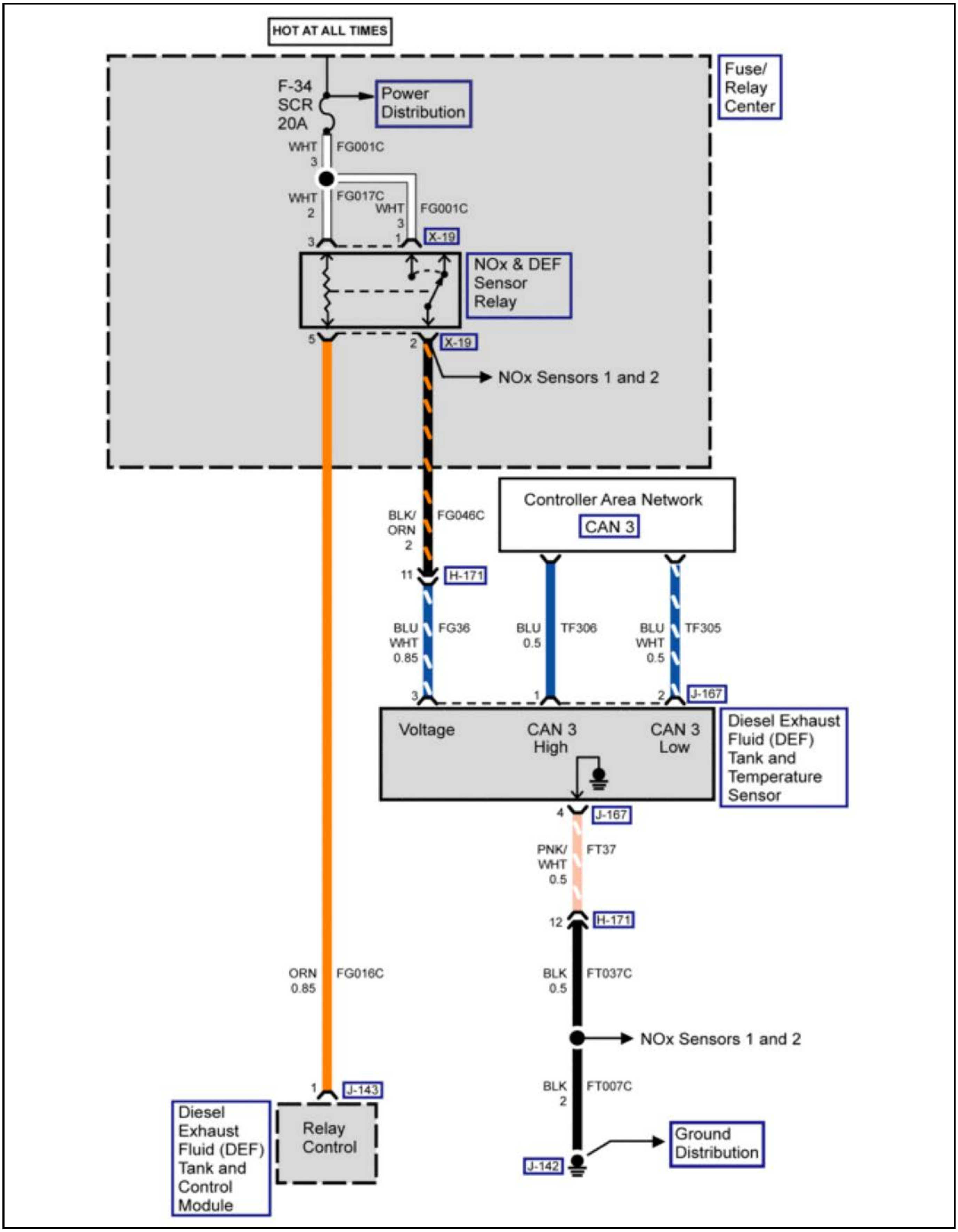
4892724

Selective Catalyst Reduction (SCR) Schematics (DEF Tank Heater Coolant Control Valve)


HOT AT ALL TIMES
F34
SCR
20 A
Power Distribution
Fuse/ Relay Center
• DEF Control Module
• NOx & DEF Sensor Relay
WHT 1.25
FG015C
3
2
X-23
Heater Valve Relay (SCR)
5
1
X-23
RED/ WHT 1.25
FG011C
LT GRN 0.85
FG014C
GRY 0.85
FG013C
15
H-171
RED/ WHT 0.85
FG11
1
J-166
DEF Tank Heater Coolant Control Valve
2
J-166
85
8
J-143
Diesel Exhaust Fluid (DEF) Control Module
Relay Control Voltage
BLK 1.25
FT10
16
H-171
BLK 1.25
FT010C
Ground Distribution
J-142

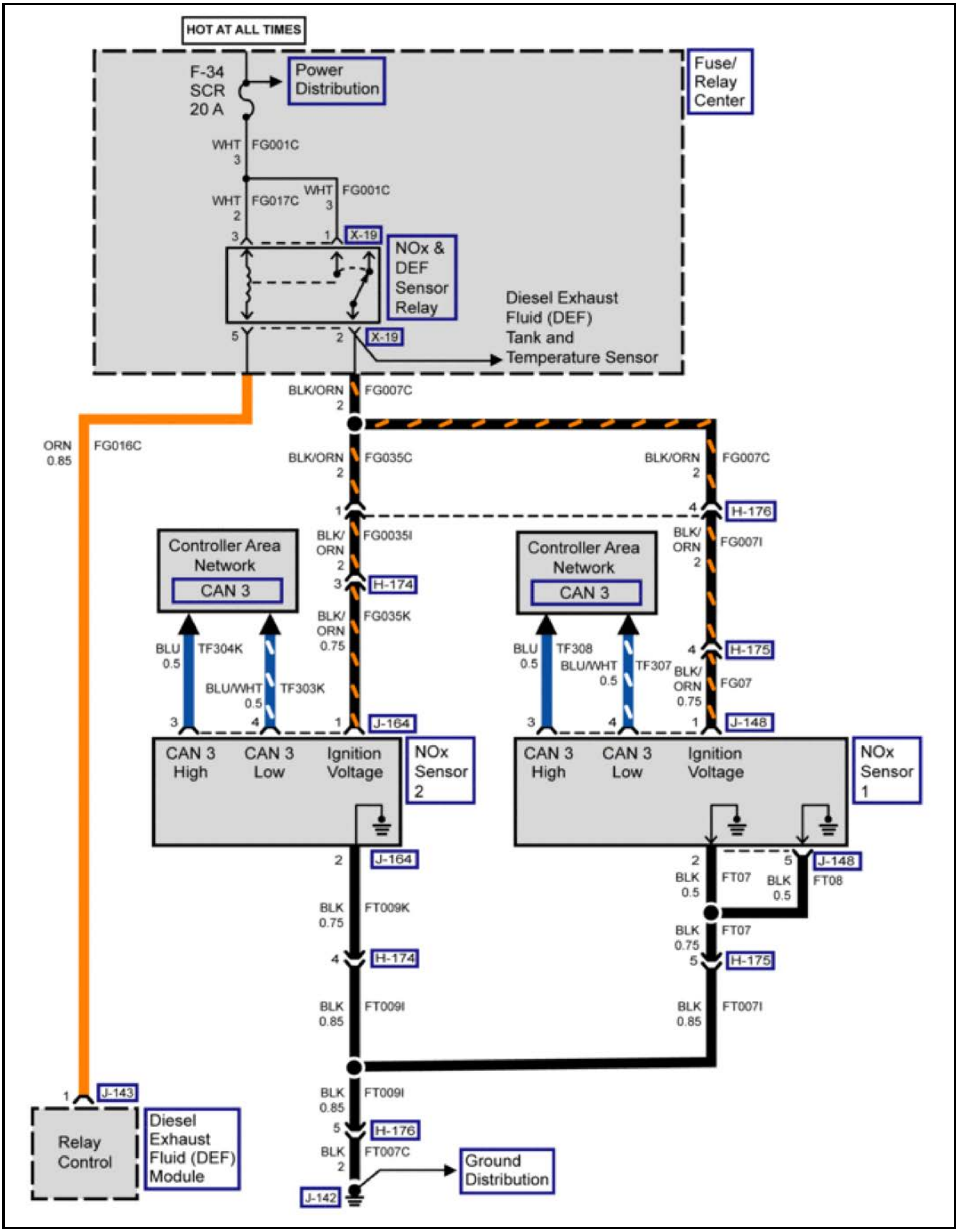
4892739

Selective Catalyst Reduction (SCR) Schematics (DEF Tank Sensor)


HOT AT ALL TIMES
F-34
SCR
20A
Power Distribution
Fuse/ Relay Center
WHT 3 FG001C
WHT 2 FG017C
WHT 3 FG001C
3
1
X-19
NOx & DEF Sensor Relay
5
2
X-19
NOx Sensors 1 and 2
Controller Area Network
CAN 3
BLK/ ORN 2 FG046C
11
H-171
BLU WHT 0.85 FG36
BLU 0.5 TF306
BLU WHT 0.5 TF305
3
1
2
J-167
Voltage
CAN 3 High
CAN 3 Low
Diesel Exhaust Fluid (DEF) Tank and Temperature Sensor
4
J-167
PNK/ WHT 0.5 FT37
12
H-171
ORN 0.85 FG016C
BLK 0.5 FT037C
NOx Sensors 1 and 2
BLK 2 FT007C
1
J-143
Diesel Exhaust Fluid (DEF) Tank and Control Module
Relay Control
Ground Distribution
J-142

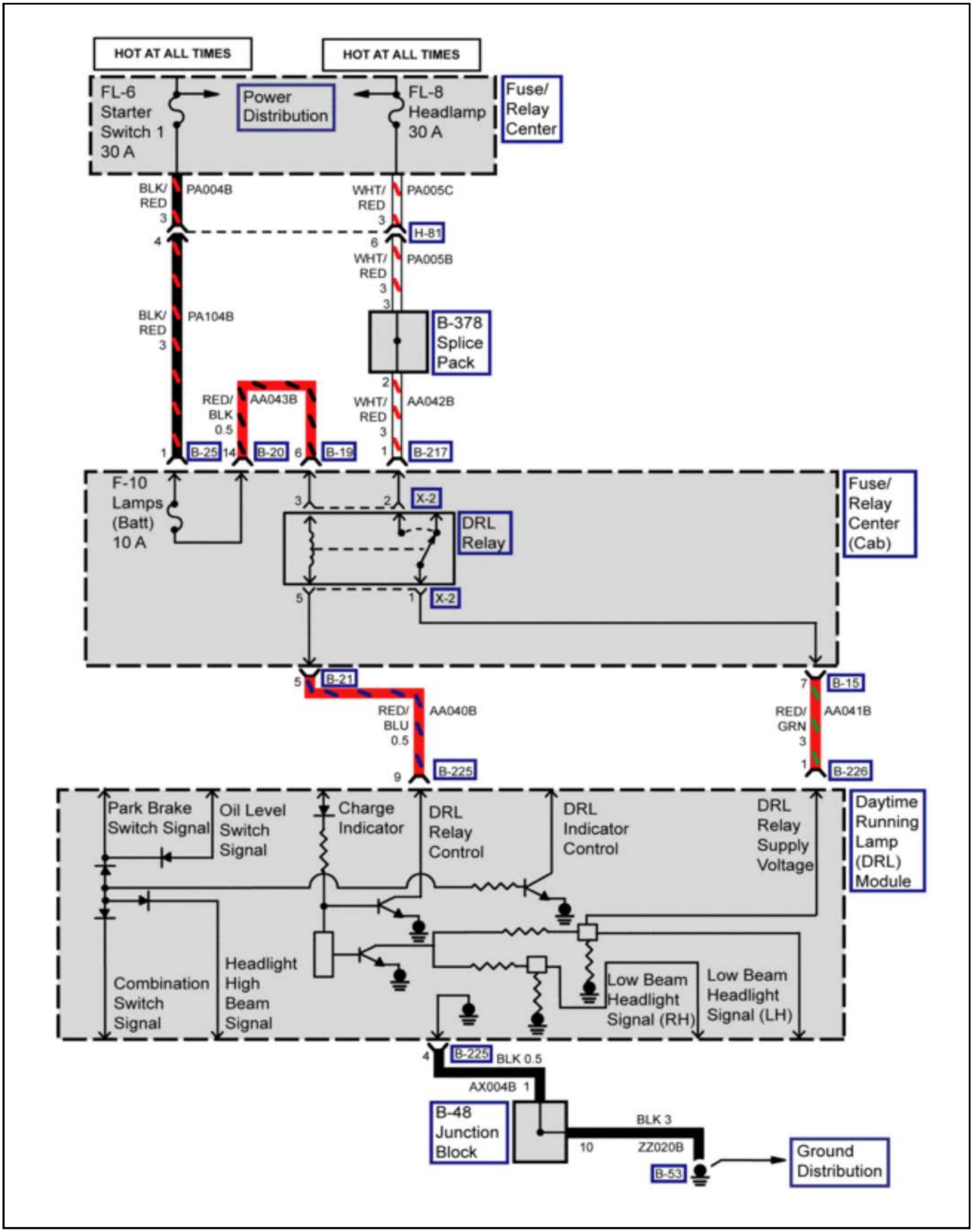
4892747

Selective Catalyst Reduction (SCR) Schematics (NOx Sensors)


HOT AT ALL TIMES
F-34
SCR
20 A
Power Distribution
Fuse/ Relay Center
WHT FG001C 3
WHT FG017C 2
WHT FG001C 3
3
1
X-19
NOx & DEF Sensor Relay
Diesel Exhaust Fluid (DEF) Tank and Temperature Sensor
5
2
X-19
BLK/ORN FG007C 2
ORN 0.85 FG016C
BLK/ORN FG035C 2
BLK/ORN FG007C 2
1
4
H-176
Controller Area Network
CAN 3
BLK/ ORN 2 FG0035I
3
H-174
BLK/ ORN 0.75 FG035K
BLU 0.5 TF304K
BLU/WHT 0.5 TF303K
3
4
1
J-164
CAN 3 High
CAN 3 Low
Ignition Voltage
NOx Sensor 2
Controller Area Network
CAN 3
BLK/ ORN 2 FG007I
4
H-175
BLU 0.5 TF308
BLU/WHT 0.5 TF307
BLK/ ORN 0.75 FG07
3
4
1
J-148
CAN 3 High
CAN 3 Low
Ignition Voltage
NOx Sensor 1
2
J-164
BLK 0.75 FT009K
4
H-174
BLK 0.85 FT009I
2
BLK 0.5 FT07
5
J-148
BLK 0.5 FT08
BLK 0.75 FT07
5
H-175
BLK 0.85 FT007I
BLK 0.85 FT009I
5
H-176
BLK 2 FT007C
J-142
Ground Distribution
1
J-143
Relay Control
Diesel Exhaust Fluid (DEF) Module

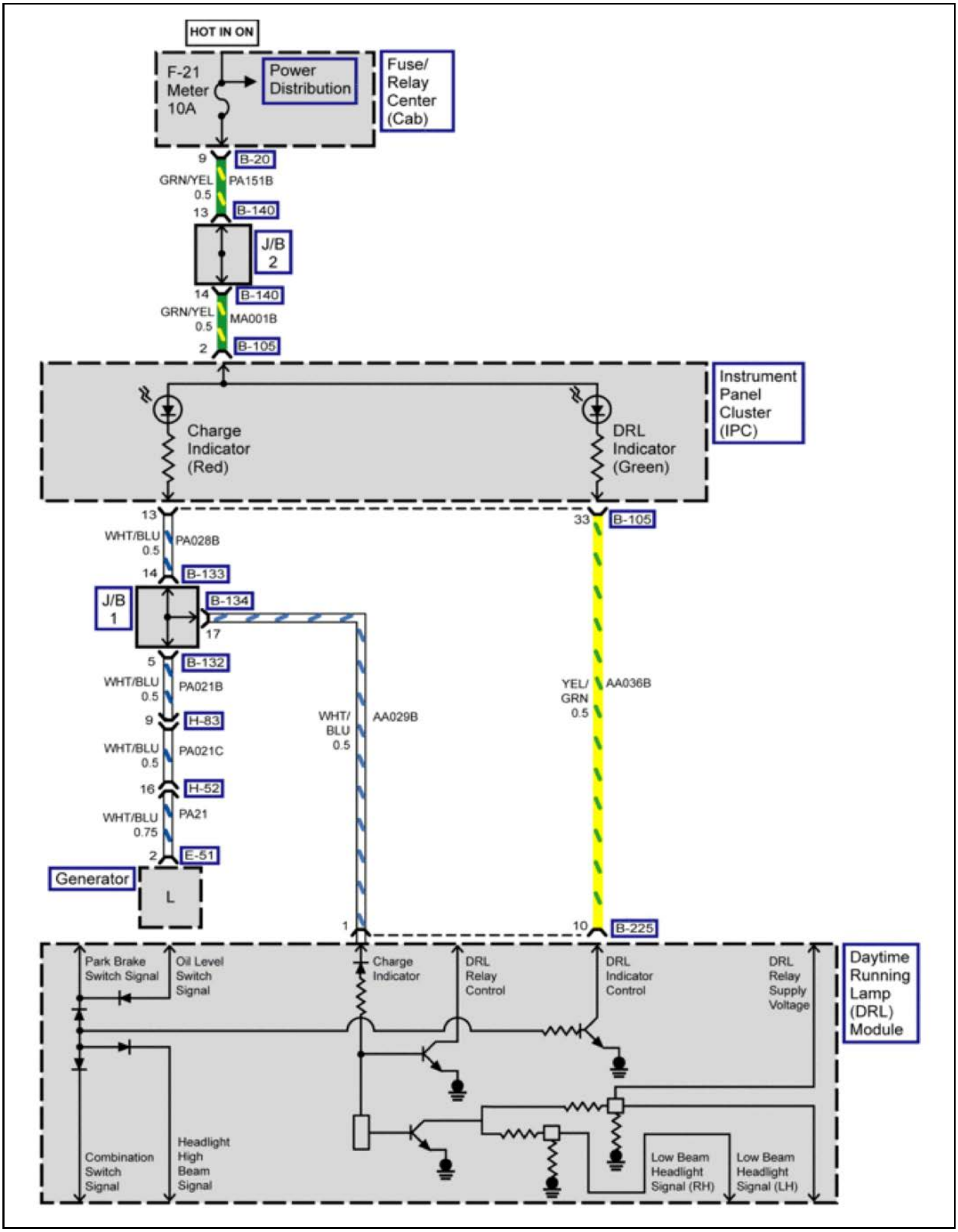
4892757

Exterior Lights Schematics (Headlamps/Daytime Running Lamps Module Powers and Grounds)


HOT AT ALL TIMES
HOT AT ALL TIMES
FL-6 Starter Switch 1 30 A
Power Distribution
FL-8 Headlamp 30 A
Fuse/ Relay Center
BLK/ RED 3
PA004B
WHT/ RED 3
PA005C
3
4
H-81
6
WHT/ RED 3
PA005B
BLK/ RED 3
PA104B
3
B-378 Splice Pack
2
RED/ BLK 0.5
AA043B
WHT/ RED 3
AA042B
1
B-25
14
B-20
6
B-19
1
B-217
F-10 Lamps (Batt) 10 A
3
2
X-2
DRL Relay
Fuse/ Relay Center (Cab)
5
1
X-2
5
B-21
7
B-15
RED/ BLU 0.5
AA040B
RED/ GRN 3
AA041B
9
B-225
1
B-226
Park Brake Switch Signal
Oil Level Switch Signal
Charge Indicator
DRL Relay Control
DRL Indicator Control
DRL Relay Supply Voltage
Daytime Running Lamp (DRL) Module
Combination Switch Signal
Headlight High Beam Signal
Low Beam Headlight Signal (RH)
Low Beam Headlight Signal (LH)
4
B-225
BLK 0.5
AX004B 1
B-48 Junction Block
BLK 3
10
ZZ020B
B-53
Ground Distribution

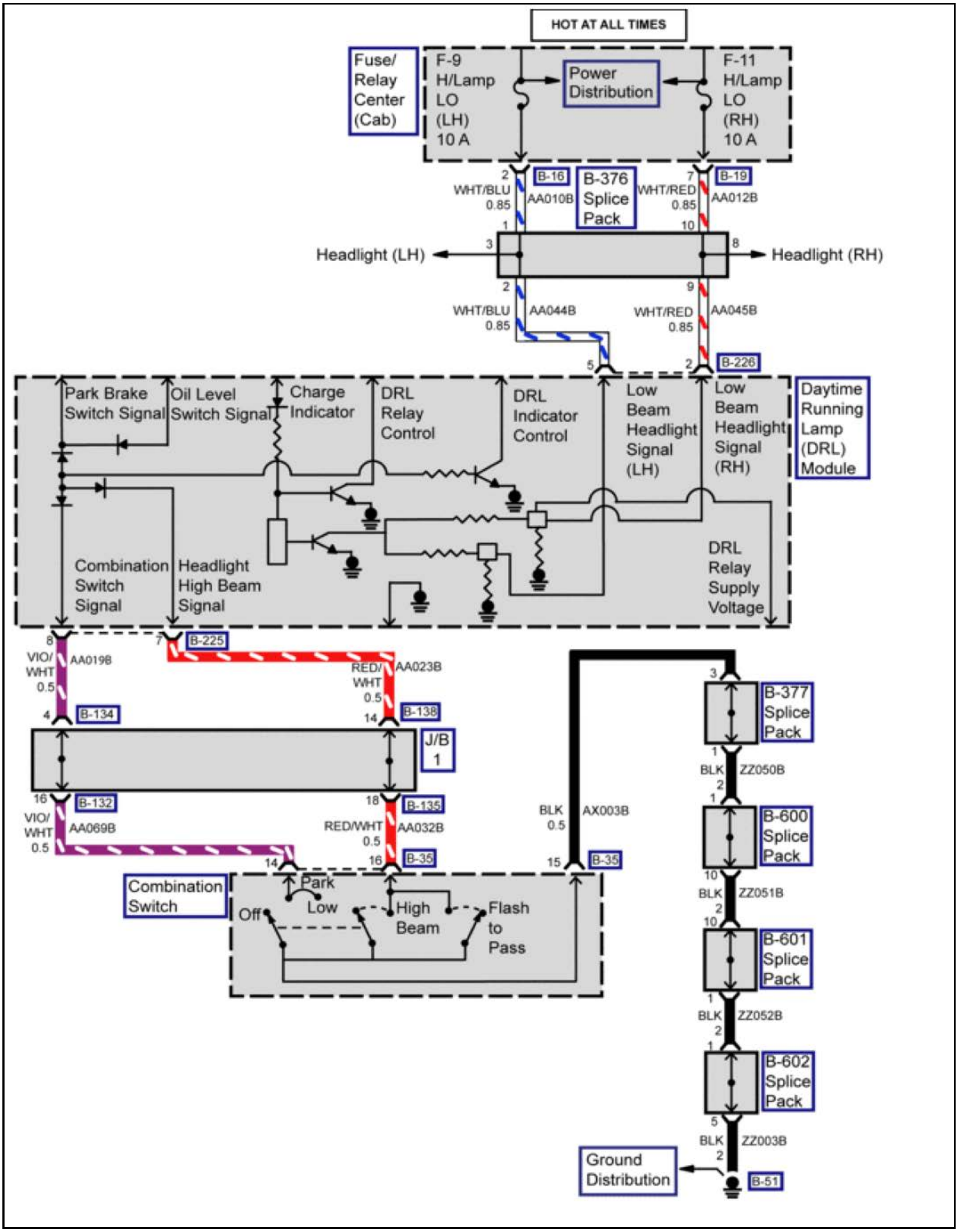
4892104

Exterior Lights Schematics (DRL and Charge Indicators)


HOT IN ON
F-21
Meter
10A
Power
Distribution
Fuse/
Relay
Center
(Cab)
9
B-20
GRN/YEL
0.5
PA151B
13
B-140
J/B
2
14
B-140
GRN/YEL
0.5
MA001B
2
B-105
Instrument
Panel
Cluster
(IPC)
Charge
Indicator
(Red)
DRL
Indicator
(Green)
13
33
B-105
WHT/BLU
0.5
PA028B
14
B-133
J/B
1
B-134
17
5
B-132
WHT/BLU
0.5
PA021B
9
H-83
WHT/BLU
0.5
PA021C
16
H-52
WHT/BLU
0.75
PA21
2
E-51
Generator
L
WHT/
BLU
0.5
AA029B
YEL/
GRN
0.5
AA036B
1
10
B-225
Park Brake
Switch Signal
Oil Level
Switch
Signal
Charge
Indicator
DRL
Relay
Control
DRL
Indicator
Control
DRL
Relay
Supply
Voltage
Daytime
Running
Lamp
(DRL)
Module
Combination
Switch
Signal
Headlight
High
Beam
Signal
Low Beam
Headlight
Signal (RH)
Low Beam
Headlight
Signal (LH)

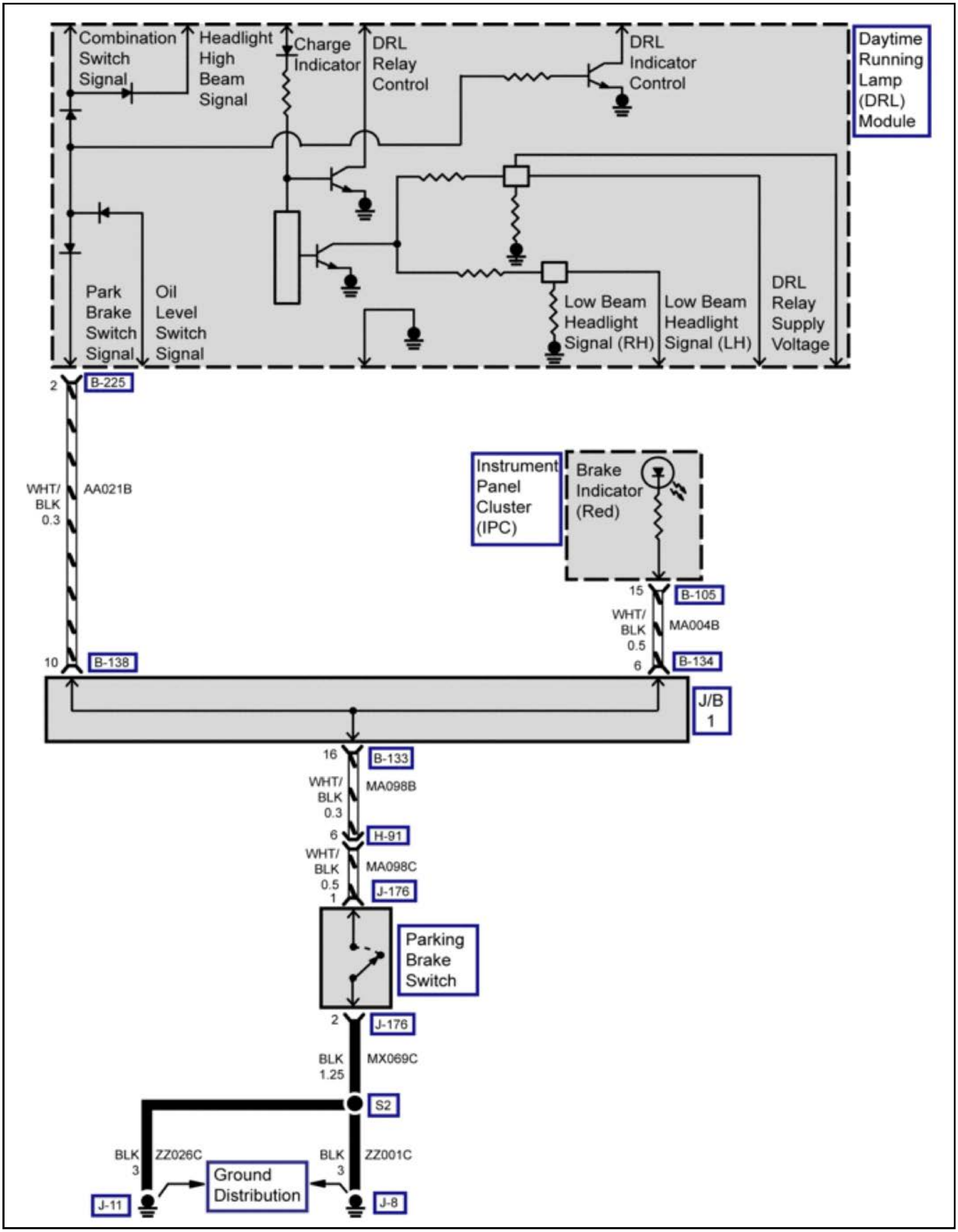
4892106

Exterior Lights Schematics (Headlamps)


HOT AT ALL TIMES
Fuse/ Relay Center (Cab)
F-9 H/Lamp LO (LH) 10 A
Power Distribution
F-11 H/Lamp LO (RH) 10 A
B-16
WHT/BLU 0.85
AA010B
B-376 Splice Pack
WHT/RED 0.85
B-19
AA012B
Headlight (LH)
Headlight (RH)
AA044B
AA045B
B-226
Park Brake Switch Signal
Oil Level Switch Signal
Charge Indicator
DRL Relay Control
DRL Indicator Control
Low Beam Headlight Signal (LH)
Low Beam Headlight Signal (RH)
Daytime Running Lamp (DRL) Module
Combination Switch Signal
Headlight High Beam Signal
DRL Relay Supply Voltage
B-225
VIO/WHT 0.5
AA019B
RED/WHT 0.5
AA023B
B-134
B-138
J/B 1
B-132
B-135
AA069B
AA032B
B-35
BLK 0.5
AX003B
Combination Switch
Park
Off
Low
High Beam
Flash to Pass
B-377 Splice Pack
BLK
ZZ050B
B-600 Splice Pack
ZZ051B
B-601 Splice Pack
ZZ052B
B-602 Splice Pack
ZZ003B
Ground Distribution
B-51

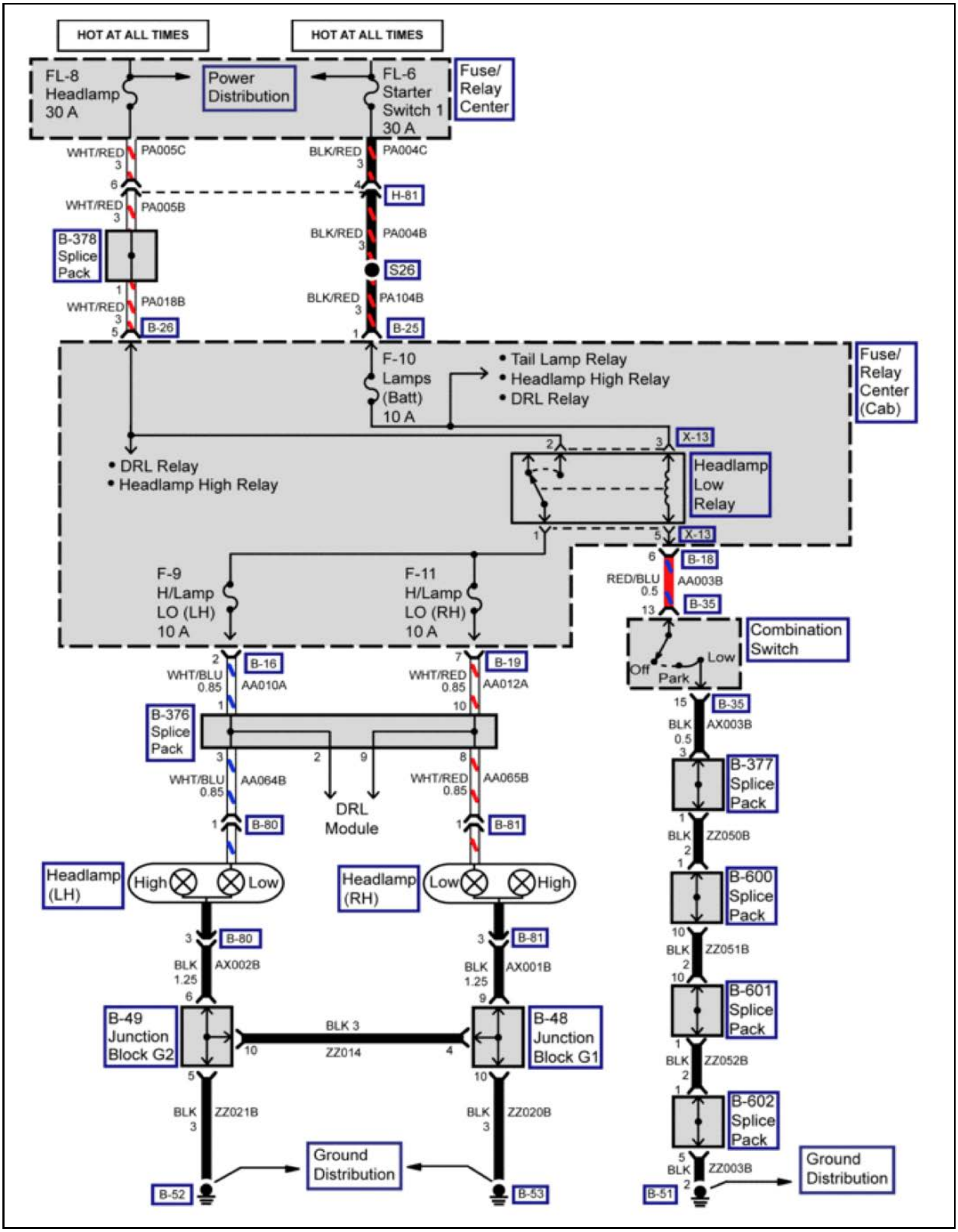
4892108

Exterior Lights Schematics (Park Brake)


Combination Switch Signal
Headlight High Beam Signal
Charge Indicator
DRL Relay Control
DRL Indicator Control
Daytime Running Lamp (DRL) Module
Park Brake Switch Signal
Oil Level Switch Signal
Low Beam Headlight Signal (RH)
Low Beam Headlight Signal (LH)
DRL Relay Supply Voltage
2
B-225
WHT/ BLK 0.3
AA021B
10
B-138
Instrument Panel Cluster (IPC)
Brake Indicator (Red)
15
B-105
WHT/ BLK 0.5
MA004B
6
B-134
J/B 1
16
B-133
WHT/ BLK 0.3
MA098B
6
H-91
WHT/ BLK 0.5
MA098C
1
J-176
Parking Brake Switch
2
J-176
BLK 1.25
MX069C
S2
BLK 3
ZZ026C
BLK 3
ZZ001C
Ground Distribution
J-11
J-8

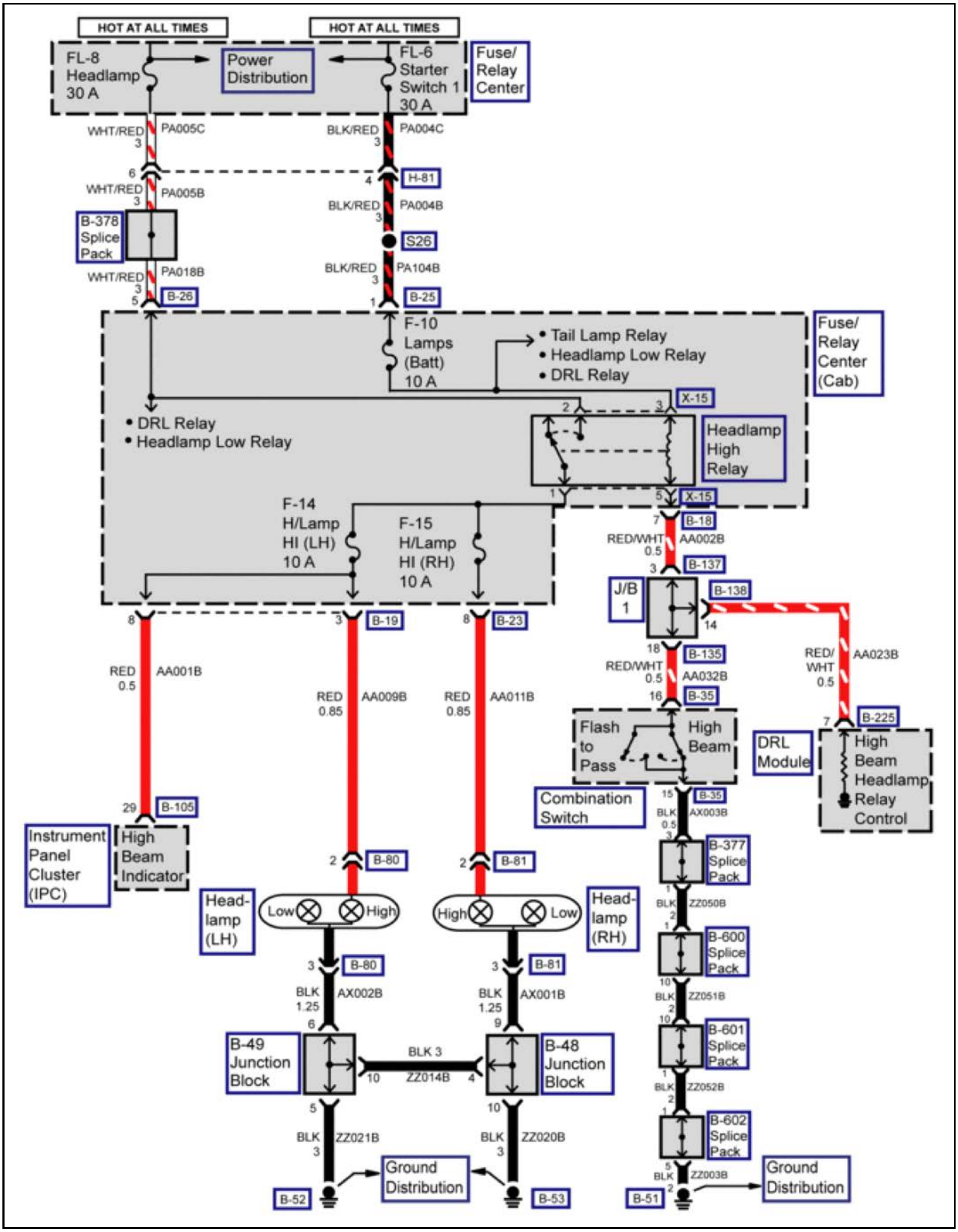
4892110

Exterior Lights Schematics (Headlamps Low Beams)


HOT AT ALL TIMES
HOT AT ALL TIMES
FL-8 Headlamp 30 A
Power Distribution
FL-6 Starter Switch 1 30 A
Fuse/ Relay Center
WHT/RED 3
PA005C
BLK/RED 3
PA004C
6
4
H-81
WHT/RED 3
PA005B
B-378 Splice Pack
BLK/RED 3
PA004B
S26
1
WHT/RED 3
PA018B
5
B-26
BLK/RED 3
PA104B
1
B-25
F-10 Lamps (Batt) 10 A
• Tail Lamp Relay
• Headlamp High Relay
• DRL Relay
Fuse/ Relay Center (Cab)
2
3
X-13
• DRL Relay
• Headlamp High Relay
Headlamp Low Relay
1
5
X-13
6
B-18
RED/BLU 0.5
AA003B
13
B-35
Combination Switch
Off
Park
Low
F-9 H/Lamp LO (LH) 10 A
F-11 H/Lamp LO (RH) 10 A
2
B-16
WHT/BLU 0.85
AA010A
1
7
B-19
WHT/RED 0.85
AA012A
10
B-376 Splice Pack
3
2
9
8
WHT/BLU 0.85
AA064B
WHT/RED 0.85
AA065B
DRL Module
1
B-80
1
B-81
15
B-35
BLK 0.5
AX003B
3
B-377 Splice Pack
1
BLK
ZZ050B
2
1
B-600 Splice Pack
Headlamp (LH)
High
Low
Headlamp (RH)
Low
High
3
B-80
BLK 1.25
AX002B
6
3
B-81
BLK 1.25
AX001B
9
10
BLK
ZZ051B
2
10
B-601 Splice Pack
B-49 Junction Block G2
BLK 3
ZZ014
10
4
B-48 Junction Block G1
5
10
1
BLK
ZZ052B
2
1
B-602 Splice Pack
BLK 3
ZZ021B
BLK 3
ZZ020B
5
BLK
ZZ003B
2
Ground Distribution
Ground Distribution
B-52
B-53
B-51

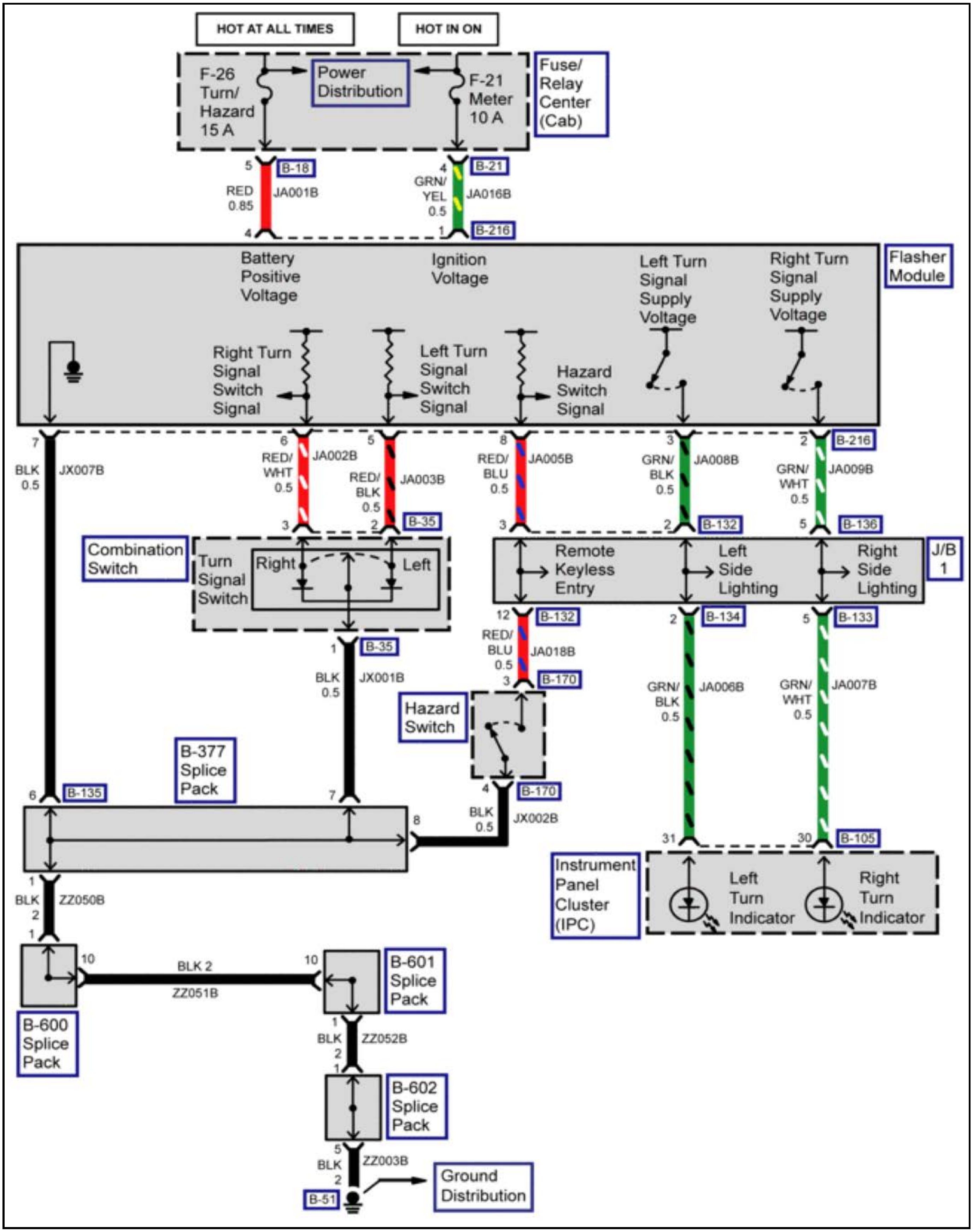
4892113

Exterior Lights Schematics (Headlamps High Beams)


HOT AT ALL TIMES
HOT AT ALL TIMES
FL-8 Headlamp 30 A
Power Distribution
FL-6 Starter Switch 1 30 A
Fuse/ Relay Center
WHT/RED 3
PA005C
BLK/RED 3
PA004C
6
4
H-81
WHT/RED 3
PA005B
BLK/RED 3
PA004B
B-378 Splice Pack
S26
WHT/RED 3
PA018B
BLK/RED 3
PA104B
5
B-26
1
B-25
F-10 Lamps (Batt) 10 A
• Tail Lamp Relay
• Headlamp Low Relay
• DRL Relay
Fuse/ Relay Center (Cab)
X-15
• DRL Relay
• Headlamp Low Relay
Headlamp High Relay
X-15
F-14 H/Lamp HI (LH) 10 A
F-15 H/Lamp HI (RH) 10 A
B-18
RED/WHT 0.5
AA002B
B-137
J/B 1
B-138
14
8
3
B-19
8
B-23
RED 0.5
AA001B
RED 0.85
AA009B
RED 0.85
AA011B
18
B-135
RED/WHT 0.5
AA032B
RED/ WHT 0.5
AA023B
16
B-35
Flash to Pass
High Beam
DRL Module
7
B-225
High Beam Headlamp Relay Control
Combination Switch
15
B-35
BLK 0.5
AX003B
29
B-105
Instrument Panel Cluster (IPC)
High Beam Indicator
B-377 Splice Pack
2
B-80
2
B-81
BLK
ZZ050B
Head-lamp (LH)
Low
High
High
Low
Head-lamp (RH)
B-600 Splice Pack
3
B-80
3
B-81
BLK
ZZ051B
BLK 1.25
AX002B
BLK 1.25
AX001B
B-601 Splice Pack
6
9
B-49 Junction Block
BLK 3
ZZ014B
10
4
B-48 Junction Block
BLK
ZZ052B
B-602 Splice Pack
5
10
BLK 3
ZZ021B
BLK 3
ZZ020B
BLK
ZZ003B
Ground Distribution
Ground Distribution
B-52
B-53
B-51

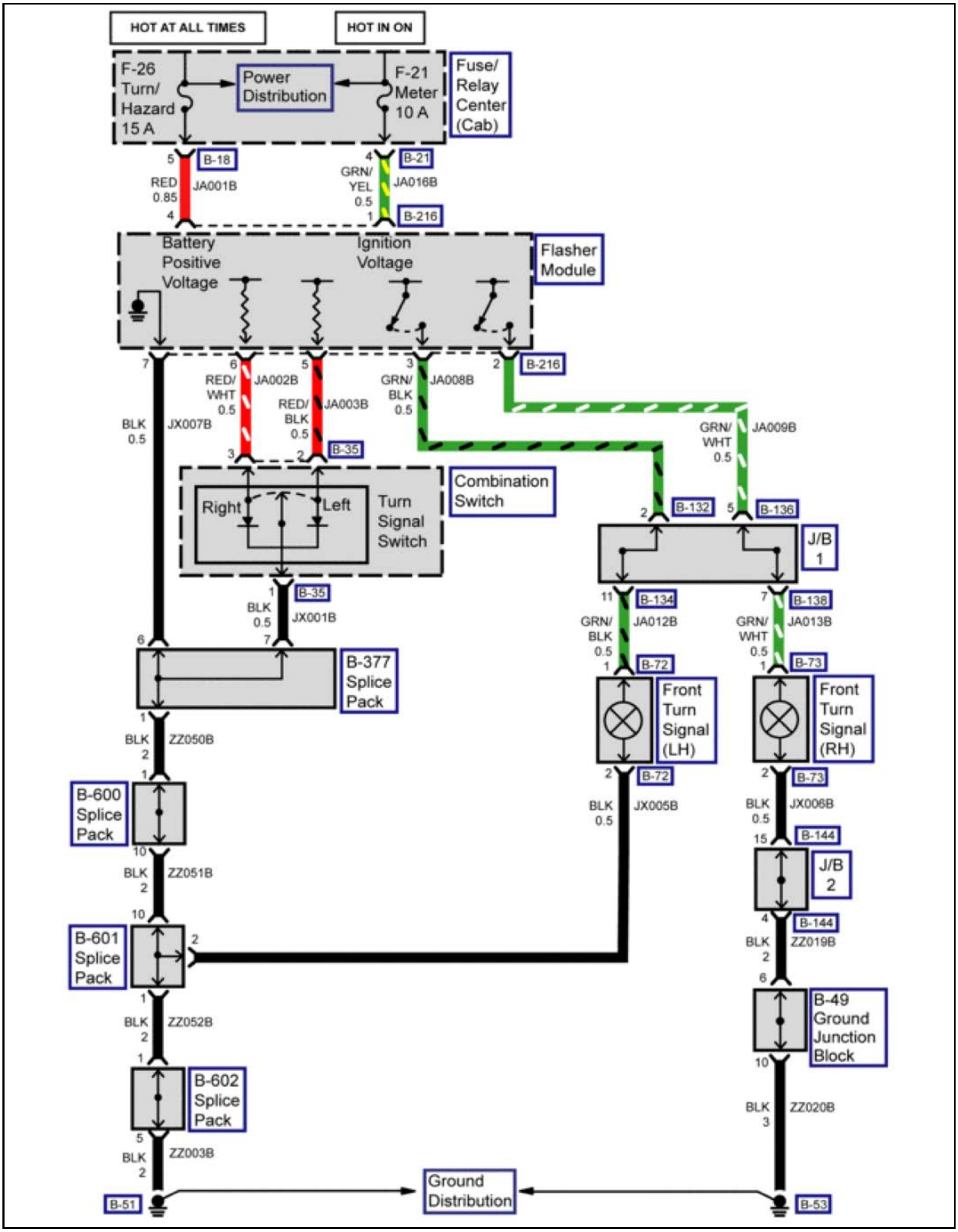
4892180

Exterior Lights Schematics (Turn Signal/Hazard Switch and Flasher Module)


HOT AT ALL TIMES
HOT IN ON
F-26 Turn/ Hazard 15 A
Power Distribution
F-21 Meter 10 A
Fuse/ Relay Center (Cab)
5
B-18
RED 0.85
JA001B
4
4
B-21
GRN/ YEL 0.5
JA016B
1
B-216
Battery Positive Voltage
Ignition Voltage
Left Turn Signal Supply Voltage
Right Turn Signal Supply Voltage
Flasher Module
Right Turn Signal Switch Signal
Left Turn Signal Switch Signal
Hazard Switch Signal
7
BLK 0.5
JX007B
6
RED/ WHT 0.5
JA002B
5
RED/ BLK 0.5
JA003B
8
RED/ BLU 0.5
JA005B
3
GRN/ BLK 0.5
JA008B
2
B-216
GRN/ WHT 0.5
JA009B
3
2
B-35
3
2
B-132
5
B-136
Combination Switch
Turn Signal Switch
Right
Left
Remote Keyless Entry
Left Side Lighting
Right Side Lighting
J/B 1
12
B-132
RED/ BLU 0.5
JA018B
3
B-170
2
B-134
5
B-133
1
B-35
BLK 0.5
JX001B
Hazard Switch
GRN/ BLK 0.5
JA006B
GRN/ WHT 0.5
JA007B
B-377 Splice Pack
6
B-135
7
8
4
B-170
BLK 0.5
JX002B
31
30
B-105
Instrument Panel Cluster (IPC)
Left Turn Indicator
Right Turn Indicator
1
BLK 2
ZZ050B
1
10
BLK 2
ZZ051B
10
B-601 Splice Pack
B-600 Splice Pack
1
BLK 2
ZZ052B
1
B-602 Splice Pack
5
BLK 2
ZZ003B
B-51
Ground Distribution

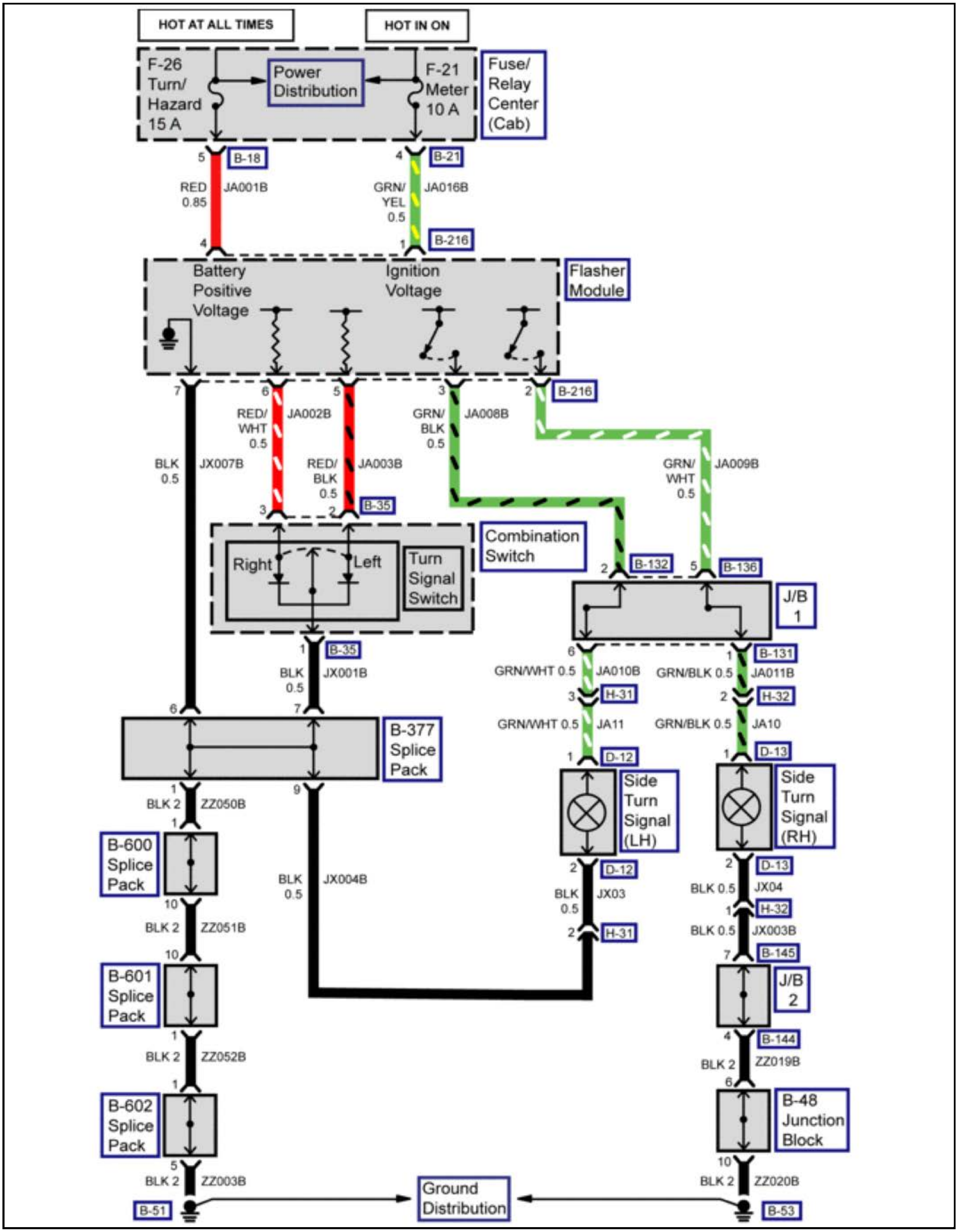
4892183

Exterior Lights Schematics (Turn Signals – Front)


HOT AT ALL TIMES
HOT IN ON
F-26 Turn/ Hazard 15 A
Power Distribution
F-21 Meter 10 A
Fuse/ Relay Center (Cab)
5
B-18
RED 0.85
JA001B
4
4
B-21
GRN/ YEL 0.5
JA016B
1
B-216
Battery Positive Voltage
Ignition Voltage
Flasher Module
7
6
5
3
2
B-216
BLK 0.5
JX007B
RED/ WHT 0.5
JA002B
RED/ BLK 0.5
JA003B
GRN/ BLK 0.5
JA008B
GRN/ WHT 0.5
JA009B
3
2
B-35
Right
Left
Turn Signal Switch
Combination Switch
2
B-132
5
B-136
J/B 1
1
B-35
BLK 0.5
JX001B
7
6
B-377 Splice Pack
11
B-134
GRN/ BLK 0.5
JA012B
1
B-72
7
B-138
GRN/ WHT 0.5
JA013B
1
B-73
Front Turn Signal (LH)
Front Turn Signal (RH)
2
B-72
BLK 0.5
JX005B
2
B-73
BLK 0.5
JX006B
15
B-144
J/B 2
4
B-144
BLK 2
ZZ019B
6
B-49 Ground Junction Block
10
BLK 3
ZZ020B
1
BLK 2
ZZ050B
1
B-600 Splice Pack
10
BLK 2
ZZ051B
10
B-601 Splice Pack
2
1
BLK 2
ZZ052B
1
B-602 Splice Pack
5
BLK 2
ZZ003B
B-51
Ground Distribution
B-53

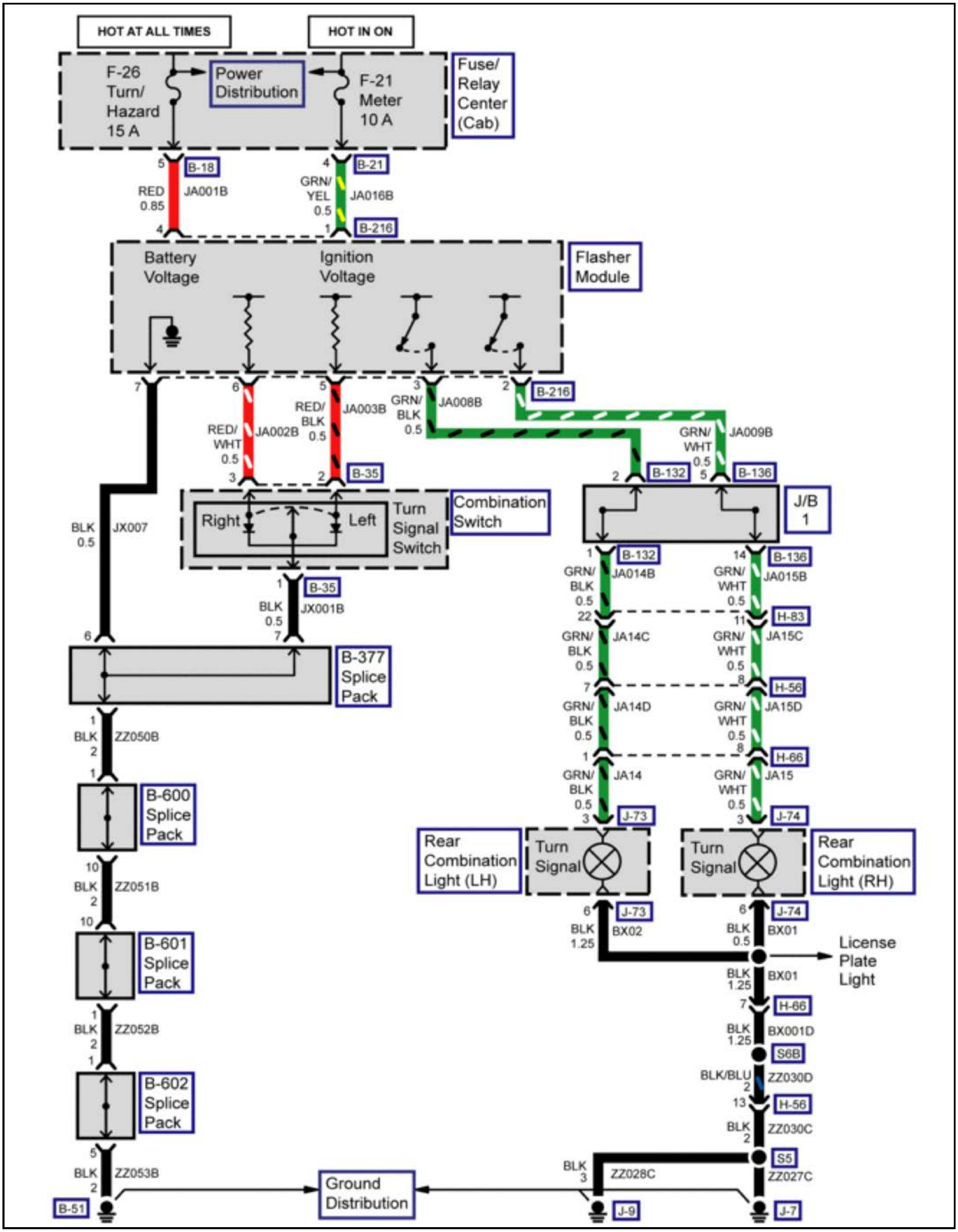
4892185

Exterior Lights Schematics (Turn Signals – Side)


HOT AT ALL TIMES
HOT IN ON
F-26 Turn/ Hazard 15 A
Power Distribution
F-21 Meter 10 A
Fuse/ Relay Center (Cab)
5 B-18
RED 0.85 JA001B
4 B-21
GRN/ YEL 0.5 JA016B
1 B-216
4
Battery Positive Voltage
Ignition Voltage
Flasher Module
7
6
5
3
2 B-216
BLK 0.5 JX007B
RED/ WHT 0.5 JA002B
RED/ BLK 0.5 JA003B
GRN/ BLK 0.5 JA008B
GRN/ WHT 0.5 JA009B
3
2 B-35
Combination Switch
Right
Left
Turn Signal Switch
1 B-35
BLK 0.5 JX001B
2 B-132
5 B-136
J/B 1
6
1 B-131
GRN/WHT 0.5 JA010B
GRN/BLK 0.5 JA011B
3 H-31
2 H-32
GRN/WHT 0.5 JA11
GRN/BLK 0.5 JA10
1 D-12
1 D-13
6
7
B-377 Splice Pack
Side Turn Signal (LH)
Side Turn Signal (RH)
1
BLK 2 ZZ050B
1
9
B-600 Splice Pack
10
BLK 2 ZZ051B
10
BLK 0.5 JX004B
2 D-12
BLK 0.5 JX03
2 H-31
2 D-13
BLK 0.5 JX04
1 H-32
BLK 0.5 JX003B
7 B-145
B-601 Splice Pack
J/B 2
1
BLK 2 ZZ052B
1
4 B-144
BLK 2 ZZ019B
6
B-602 Splice Pack
B-48 Junction Block
5
BLK 2 ZZ003B
10
BLK 2 ZZ020B
B-51
Ground Distribution
B-53

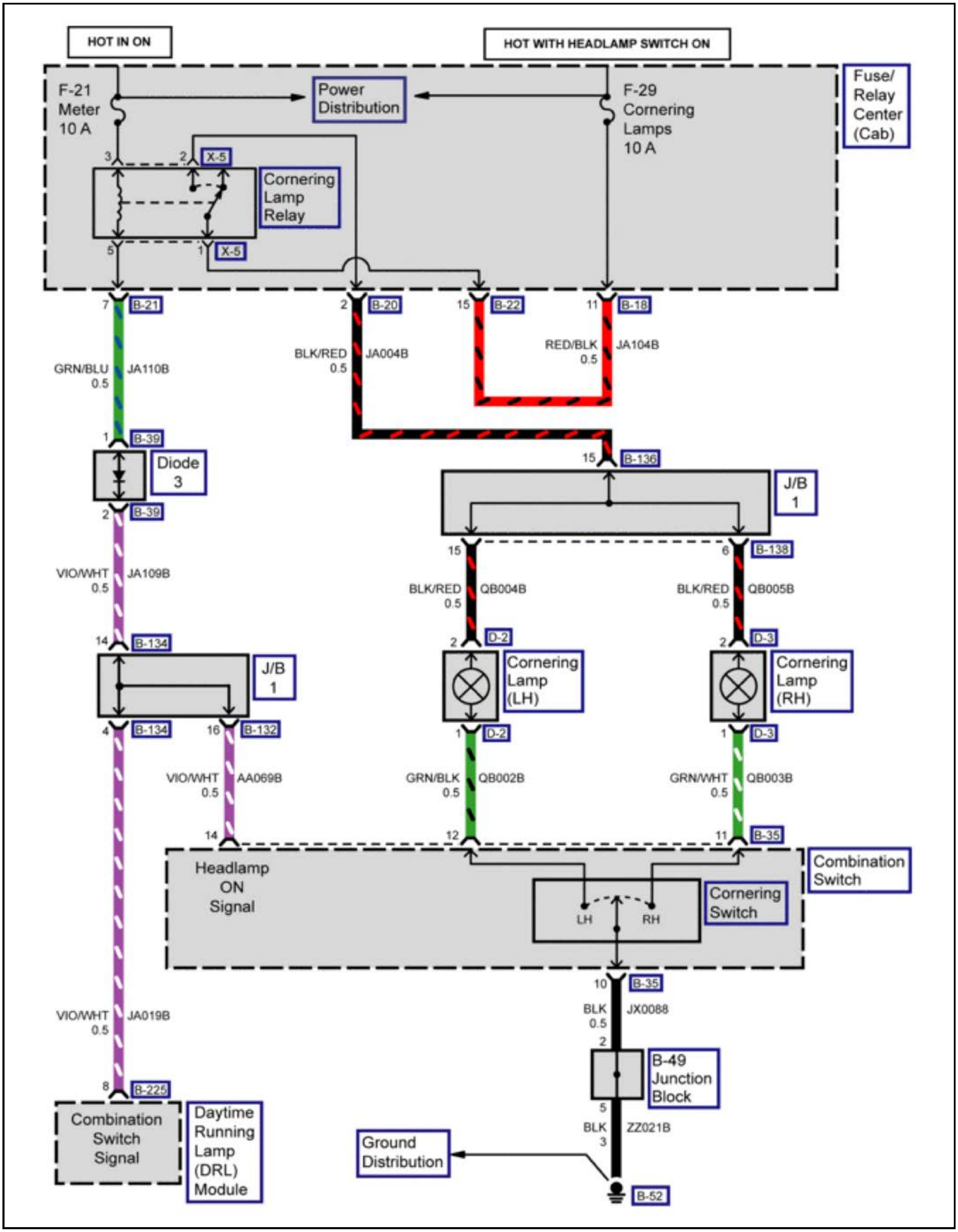
4892187

Exterior Lights Schematics (Turn Signals – Rear)


HOT AT ALL TIMES
HOT IN ON
F-26 Turn/ Hazard 15 A
Power Distribution
F-21 Meter 10 A
Fuse/ Relay Center (Cab)
5
B-18
RED 0.85
JA001B
4
4
B-21
GRN/ YEL 0.5
JA016B
1
B-216
Battery Voltage
Ignition Voltage
Flasher Module
7
6
5
3
2
B-216
RED/ WHT 0.5
JA002B
RED/ BLK 0.5
JA003B
GRN/ BLK 0.5
JA008B
GRN/ WHT 0.5
JA009B
3
2
B-35
2
B-132
5
B-136
J/B 1
BLK 0.5
JX007
Right
Left
Turn Signal Switch
Combination Switch
1
B-35
BLK 0.5
JX001B
7
6
B-377 Splice Pack
1
B-132
GRN/ BLK 0.5
JA014B
22
GRN/ BLK 0.5
JA14C
7
GRN/ BLK 0.5
JA14D
1
GRN/ BLK 0.5
JA14
3
J-73
14
B-136
GRN/ WHT 0.5
JA015B
11
H-83
GRN/ WHT 0.5
JA15C
8
H-56
GRN/ WHT 0.5
JA15D
8
H-66
GRN/ WHT 0.5
JA15
3
J-74
1
BLK 2
ZZ050B
1
B-600 Splice Pack
10
BLK 2
ZZ051B
10
B-601 Splice Pack
1
BLK 2
ZZ052B
1
B-602 Splice Pack
Rear Combination Light (LH)
Turn Signal
Turn Signal
Rear Combination Light (RH)
6
J-73
BLK 1.25
BX02
6
J-74
BLK 0.5
BX01
License Plate Light
BLK 1.25
BX01
7
H-66
BLK 1.25
BX001D
S6B
BLK/BLU 2
ZZ030D
13
H-56
BLK 2
ZZ030C
S5
BLK 3
ZZ028C
ZZ027C
5
BLK 2
ZZ053B
B-51
Ground Distribution
J-9
J-7

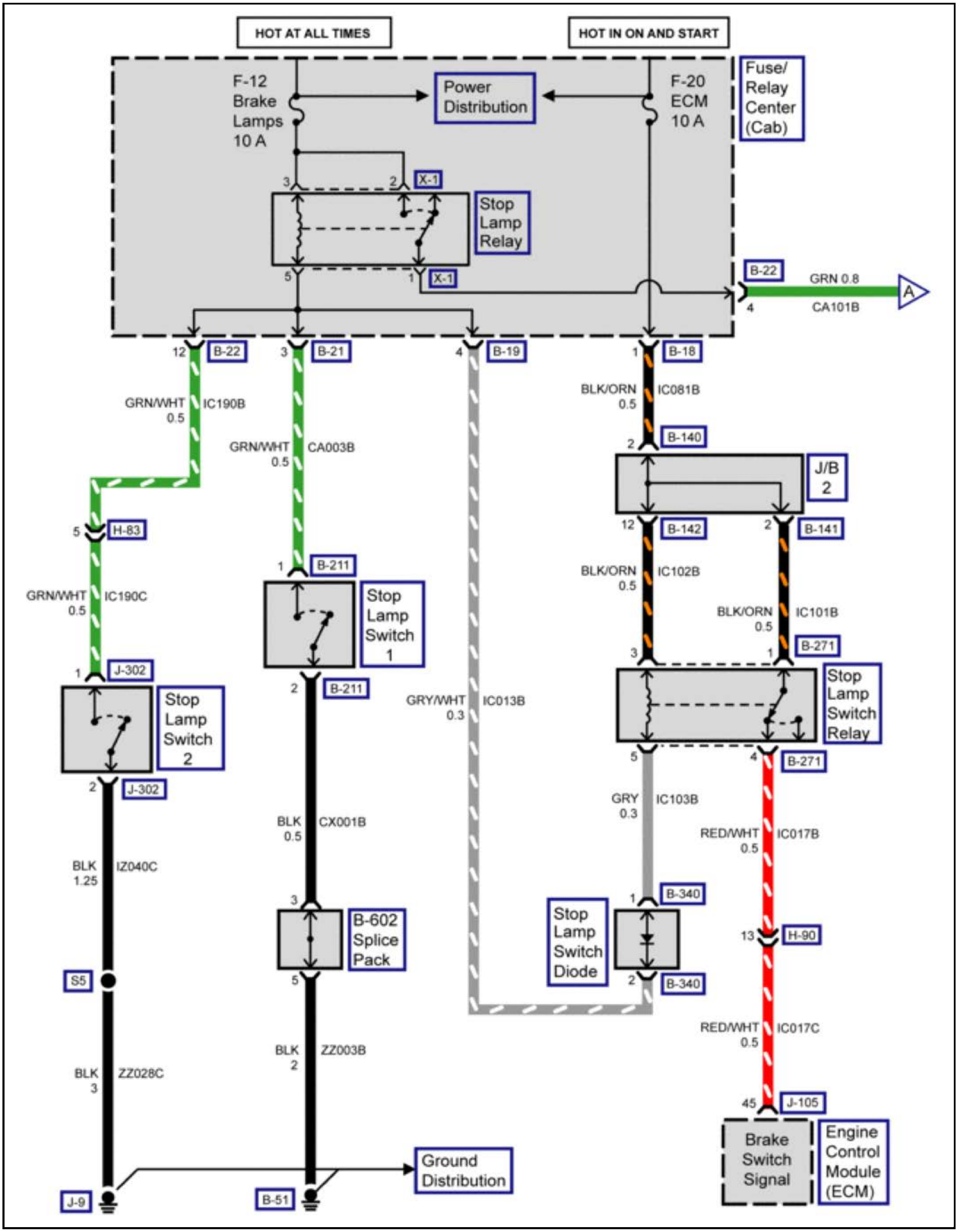
4892191

Exterior Lights Schematics (Cornering Lamps)


HOT IN ON
HOT WITH HEADLAMP SWITCH ON
F-21
Meter
10 A
Power
Distribution
F-29
Cornering
Lamps
10 A
Fuse/
Relay
Center
(Cab)
3
2
X-5
Cornering
Lamp
Relay
5
1
X-5
7
B-21
2
B-20
15
B-22
11
B-18
GRN/BLU
0.5
JA110B
BLK/RED
0.5
JA004B
RED/BLK
0.5
JA104B
1
B-39
Diode
3
2
B-39
15
B-136
J/B
1
15
6
B-138
VIO/WHT
0.5
JA109B
BLK/RED
0.5
QB004B
BLK/RED
0.5
QB005B
14
B-134
J/B
1
2
D-2
Cornering
Lamp
(LH)
2
D-3
Cornering
Lamp
(RH)
4
B-134
16
B-132
1
D-2
1
D-3
VIO/WHT
0.5
AA069B
GRN/BLK
0.5
QB002B
GRN/WHT
0.5
QB003B
14
12
11
B-35
Headlamp
ON
Signal
Combination
Switch
Cornering
Switch
LH
RH
10
B-35
VIO/WHT
0.5
JA019B
BLK
0.5
JX0088
2
B-49
Junction
Block
5
BLK
3
ZZ021B
8
B-225
Combination
Switch
Signal
Daytime
Running
Lamp
(DRL)
Module
Ground
Distribution
B-52

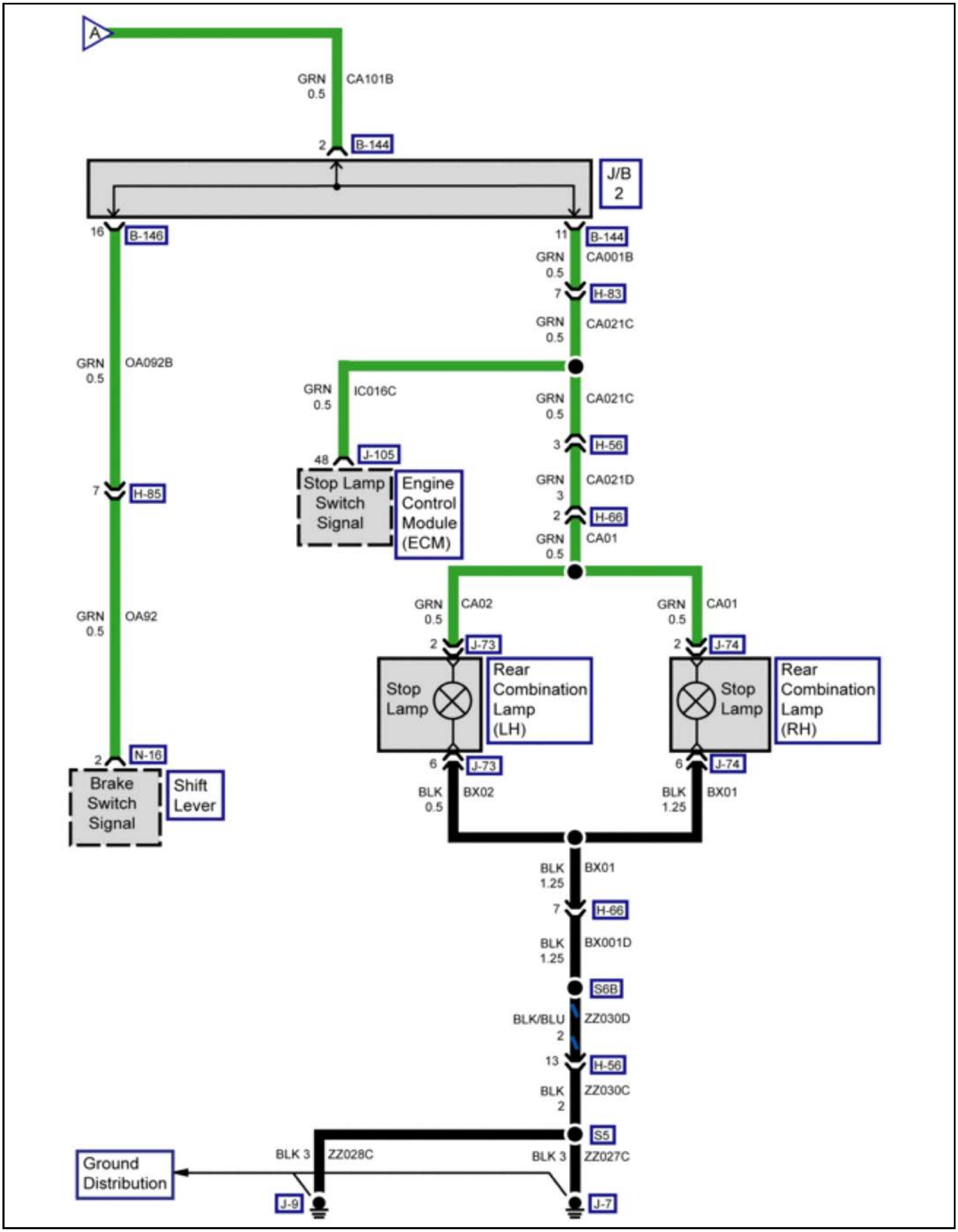
4892201

Exterior Lights Schematics (Stop Lamps Controls)


HOT AT ALL TIMES
HOT IN ON AND START
F-12 Brake Lamps 10 A
Power Distribution
F-20 ECM 10 A
Fuse/ Relay Center (Cab)
X-1
Stop Lamp Relay
B-22
GRN 0.8
CA101B
A
B-22
B-21
B-19
B-18
GRN/WHT 0.5
IC190B
GRN/WHT 0.5
CA003B
BLK/ORN 0.5
IC081B
B-140
J/B 2
B-142
B-141
H-83
GRN/WHT 0.5
IC190C
B-211
Stop Lamp Switch 1
BLK/ORN 0.5
IC102B
BLK/ORN 0.5
IC101B
B-271
J-302
Stop Lamp Switch 2
GRY/WHT 0.3
IC013B
Stop Lamp Switch Relay
GRY 0.3
IC103B
RED/WHT 0.5
IC017B
BLK 0.5
CX001B
BLK 1.25
IZ040C
B-602 Splice Pack
B-340
Stop Lamp Switch Diode
H-90
S5
BLK 2
ZZ003B
BLK 3
ZZ028C
RED/WHT 0.5
IC017C
J-105
Brake Switch Signal
Engine Control Module (ECM)
Ground Distribution
J-9
B-51

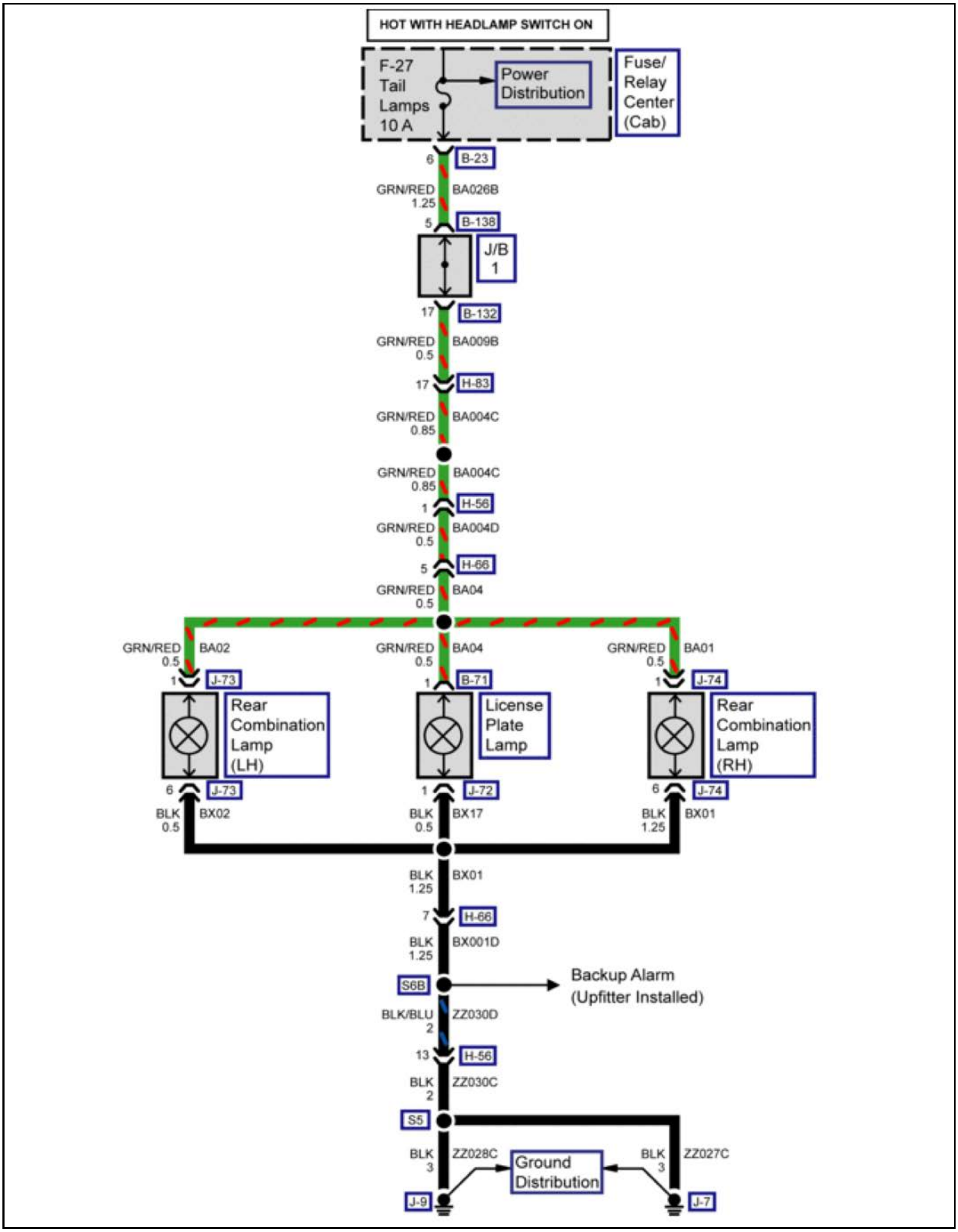
4892213

Exterior Lights Schematics (Stop Lamps)


A
GRN 0.5
CA101B
2
B-144
J/B 2
16
B-146
11
B-144
GRN 0.5
CA001B
7
H-83
GRN 0.5
CA021C
GRN 0.5
OA092B
GRN 0.5
IC016C
GRN 0.5
CA021C
3
H-56
48
J-105
Stop Lamp Switch Signal
Engine Control Module (ECM)
GRN 3
CA021D
7
H-85
2
H-66
GRN 0.5
CA01
GRN 0.5
OA92
GRN 0.5
CA02
GRN 0.5
CA01
2
J-73
2
J-74
Stop Lamp
Rear Combination Lamp (LH)
Stop Lamp
Rear Combination Lamp (RH)
2
N-16
6
J-73
6
J-74
Brake Switch Signal
Shift Lever
BLK 0.5
BX02
BLK 1.25
BX01
BLK 1.25
BX01
7
H-66
BLK 1.25
BX001D
S6B
BLK/BLU 2
ZZ030D
13
H-56
BLK 2
ZZ030C
S5
BLK 3
ZZ028C
BLK 3
ZZ027C
Ground Distribution
J-9
J-7

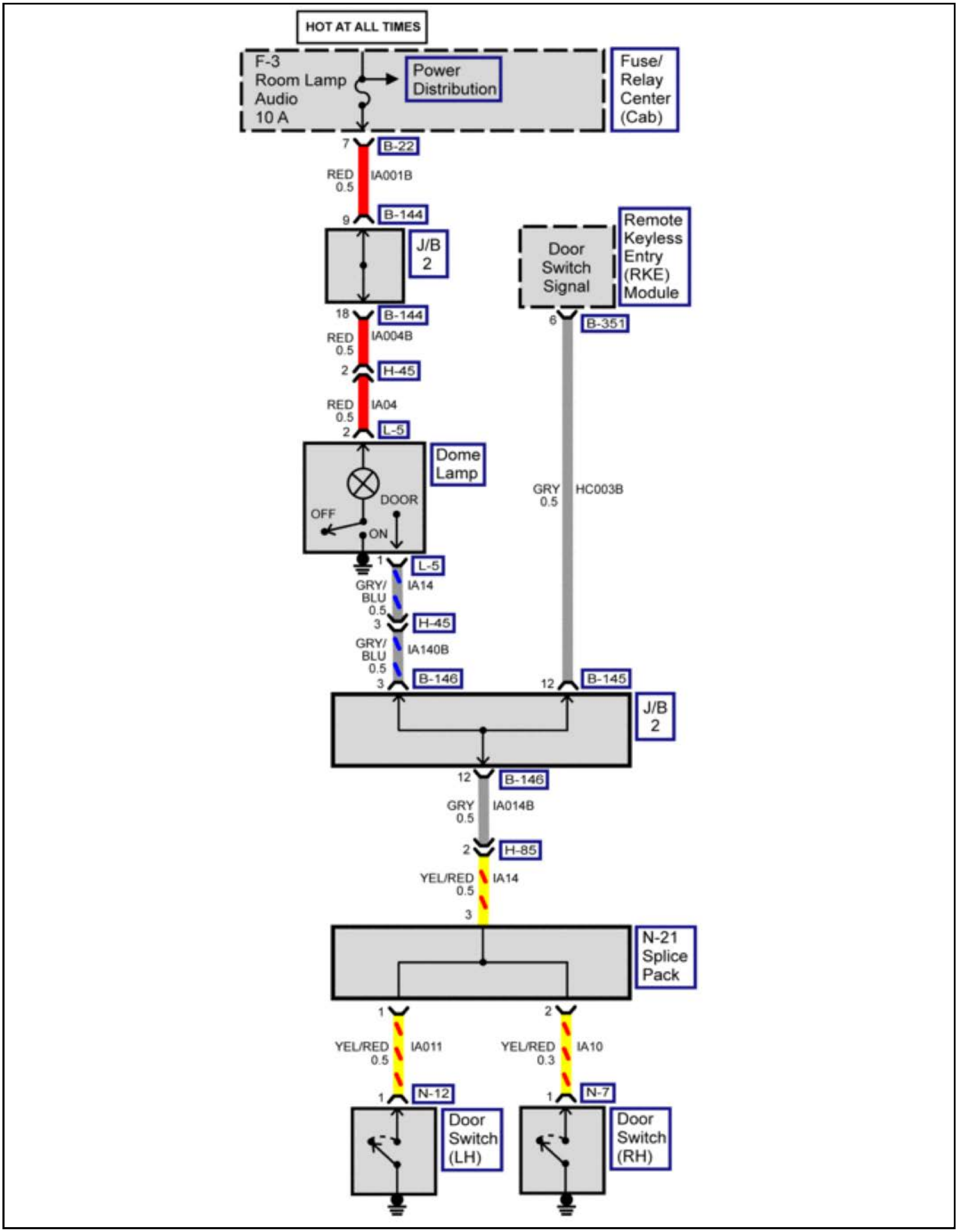
4892218

Exterior Lights Schematics (Taillamps and License Plate Lamps)


HOT WITH HEADLAMP SWITCH ON
F-27
Tail
Lamps
10 A
Power
Distribution
Fuse/
Relay
Center
(Cab)
6
B-23
GRN/RED
1.25
BA026B
5
B-138
J/B
1
17
B-132
GRN/RED
0.5
BA009B
17
H-83
GRN/RED
0.85
BA004C
GRN/RED
0.85
BA004C
1
H-56
GRN/RED
0.5
BA004D
5
H-66
GRN/RED
0.5
BA04
GRN/RED
0.5
BA02
GRN/RED
0.5
BA04
GRN/RED
0.5
BA01
1
J-73
1
B-71
1
J-74
Rear
Combination
Lamp
(LH)
License
Plate
Lamp
Rear
Combination
Lamp
(RH)
6
J-73
1
J-72
6
J-74
BLK
0.5
BX02
BLK
0.5
BX17
BLK
1.25
BX01
BLK
1.25
BX01
7
H-66
BLK
1.25
BX001D
S6B
Backup Alarm
(Upfitter Installed)
BLK/BLU
2
ZZ030D
13
H-56
BLK
2
ZZ030C
S5
BLK
3
ZZ028C
Ground
Distribution
BLK
3
ZZ027C
J-9
J-7

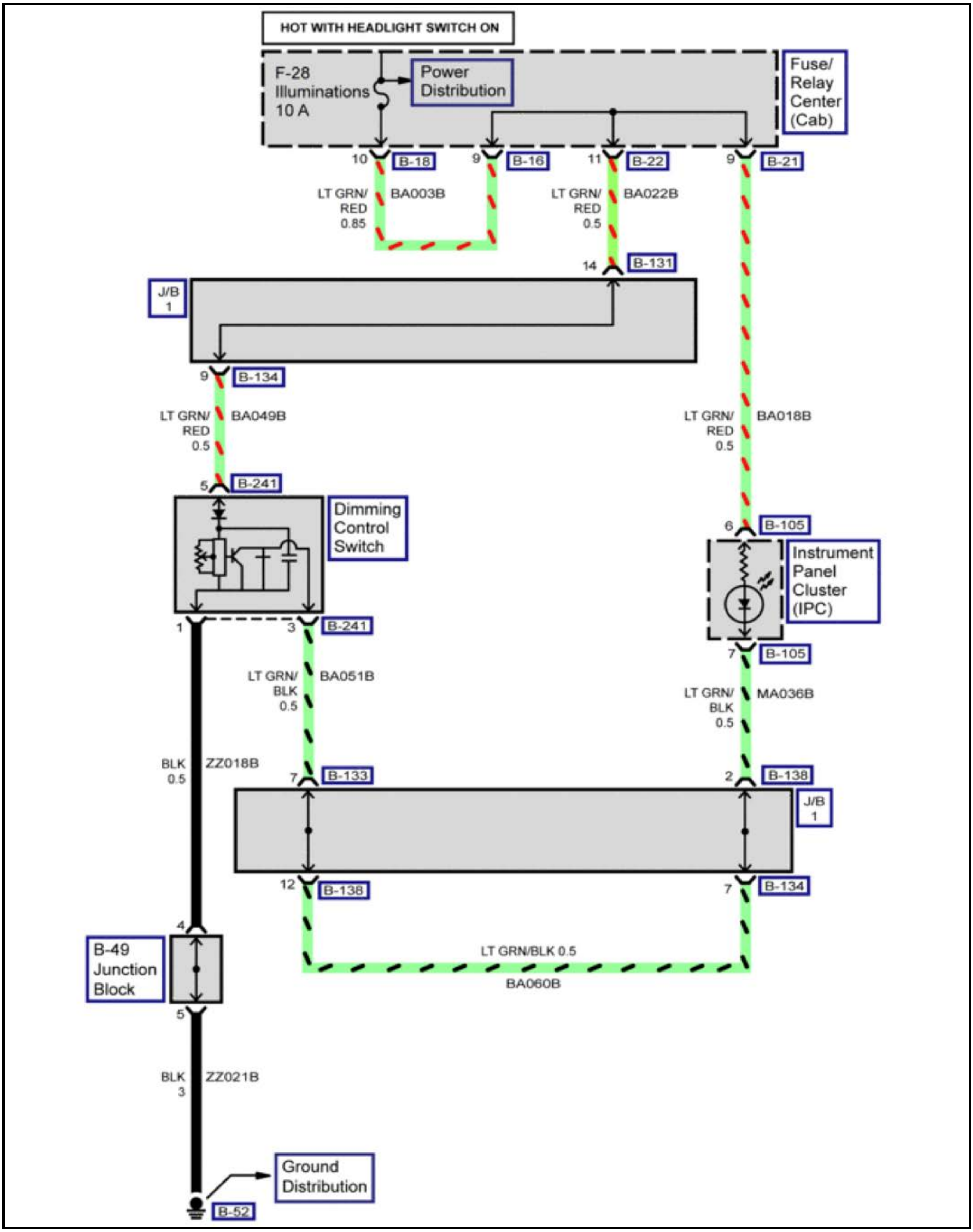
4892227

Interior Lights Schematics (Dome Lamp)


HOT AT ALL TIMES
F-3
Room Lamp
Audio
10 A
Power Distribution
Fuse/ Relay Center (Cab)
7
B-22
RED 0.5
IA001B
9
B-144
J/B 2
18
B-144
RED 0.5
IA004B
2
H-45
RED 0.5
IA04
2
L-5
Dome Lamp
DOOR
OFF
ON
1
L-5
GRY/ BLU 0.5
IA14
3
H-45
GRY/ BLU 0.5
IA140B
3
B-146
Door Switch Signal
Remote Keyless Entry (RKE) Module
6
B-351
GRY 0.5
HC003B
12
B-145
J/B 2
12
B-146
GRY 0.5
IA014B
2
H-85
YEL/RED 0.5
IA14
3
N-21 Splice Pack
1
YEL/RED 0.5
IA011
2
YEL/RED 0.3
IA10
1
N-12
1
N-7
Door Switch (LH)
Door Switch (RH)

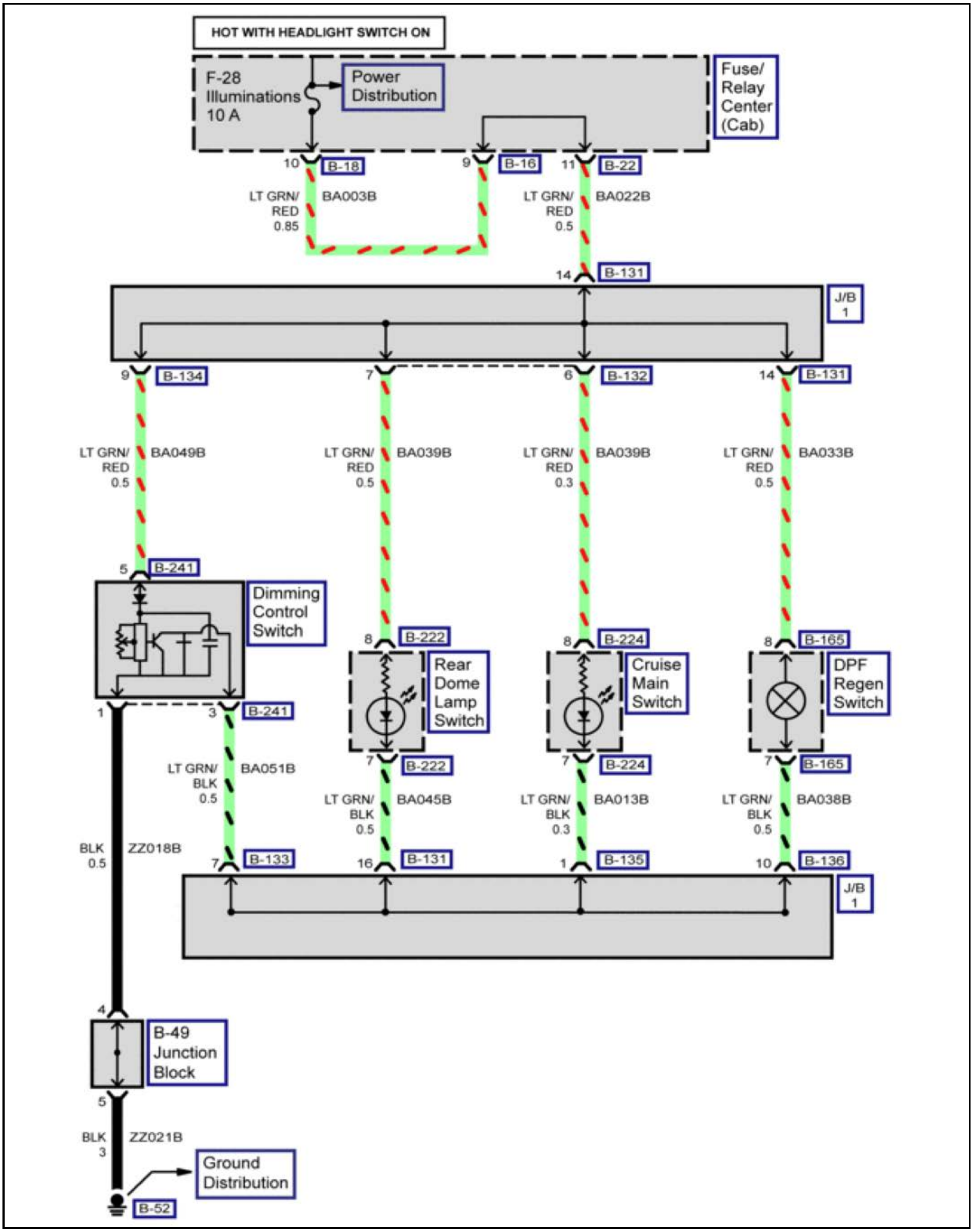
4892269

Interior Lights Schematics (Instrument Panel Illumination Dimming)


HOT WITH HEADLIGHT SWITCH ON
F-28
Illuminations
10 A
Power Distribution
Fuse/ Relay Center (Cab)
10 B-18
9 B-16
11 B-22
9 B-21
LT GRN/ RED 0.85
BA003B
LT GRN/ RED 0.5
BA022B
14 B-131
J/B 1
9 B-134
LT GRN/ RED 0.5
BA049B
LT GRN/ RED 0.5
BA018B
5 B-241
Dimming Control Switch
6 B-105
Instrument Panel Cluster (IPC)
1
3 B-241
7 B-105
LT GRN/ BLK 0.5
BA051B
LT GRN/ BLK 0.5
MA036B
BLK 0.5
ZZ018B
7 B-133
2 B-138
J/B 1
12 B-138
7 B-134
4
B-49 Junction Block
5
LT GRN/BLK 0.5
BA060B
BLK 3
ZZ021B
Ground Distribution
B-52

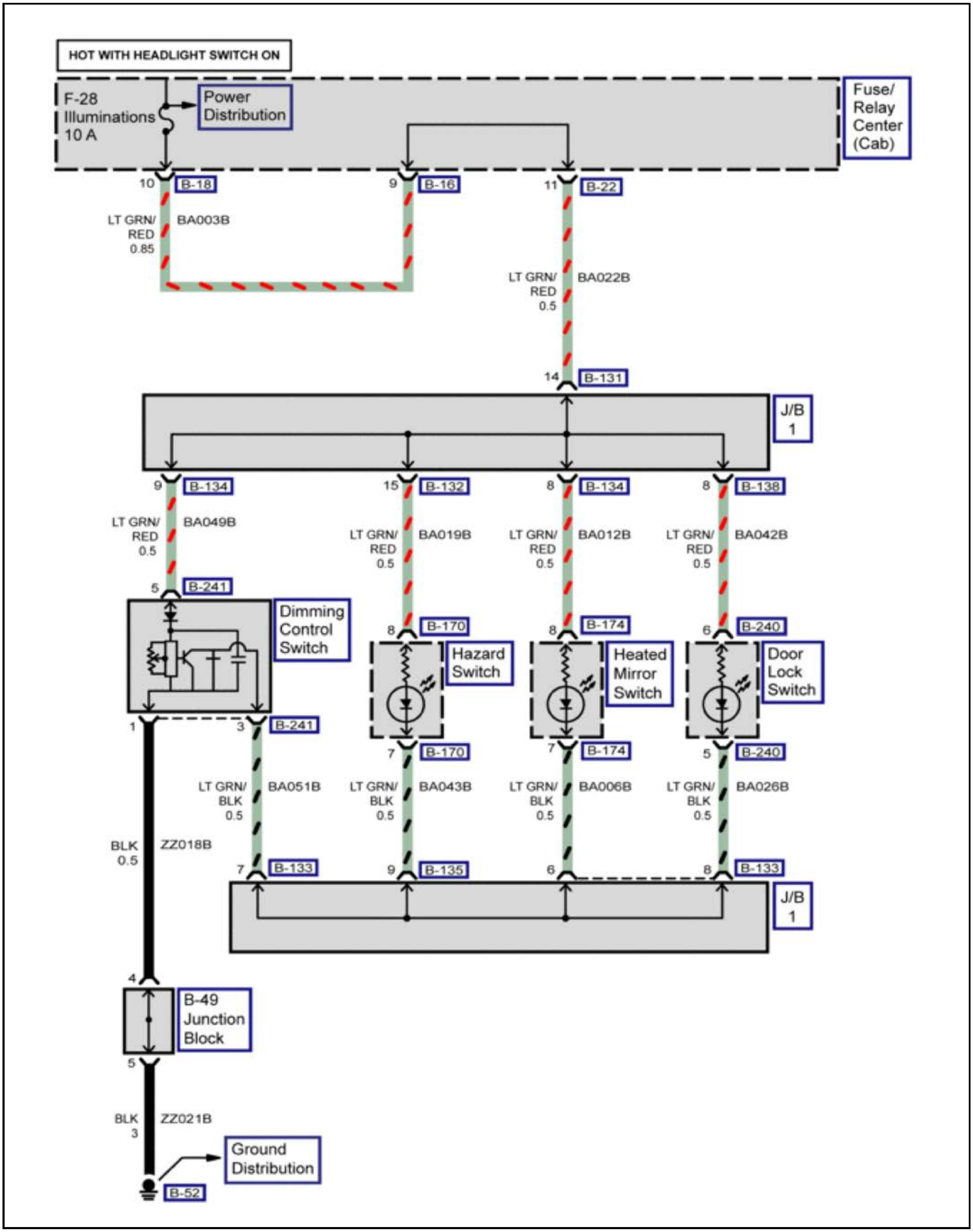
4892273

Interior Lights Schematics (DPF, Cruise Main and Rear Dome Lamp Switch)


HOT WITH HEADLIGHT SWITCH ON
F-28
Illuminations
10 A
Power Distribution
Fuse/ Relay Center (Cab)
10 B-18
9 B-16
11 B-22
LT GRN/ RED 0.85
BA003B
LT GRN/ RED 0.5
BA022B
14 B-131
J/B 1
9 B-134
7
6 B-132
14 B-131
LT GRN/ RED 0.5
BA049B
LT GRN/ RED 0.5
BA039B
LT GRN/ RED 0.3
BA039B
LT GRN/ RED 0.5
BA033B
5 B-241
Dimming Control Switch
8 B-222
Rear Dome Lamp Switch
8 B-224
Cruise Main Switch
8 B-165
DPF Regen Switch
1
3 B-241
7 B-222
7 B-224
7 B-165
LT GRN/ BLK 0.5
BA051B
LT GRN/ BLK 0.5
BA045B
LT GRN/ BLK 0.3
BA013B
LT GRN/ BLK 0.5
BA038B
BLK 0.5
ZZ018B
7 B-133
16 B-131
1 B-135
10 B-136
J/B 1
4
B-49 Junction Block
5
BLK 3
ZZ021B
Ground Distribution
B-52

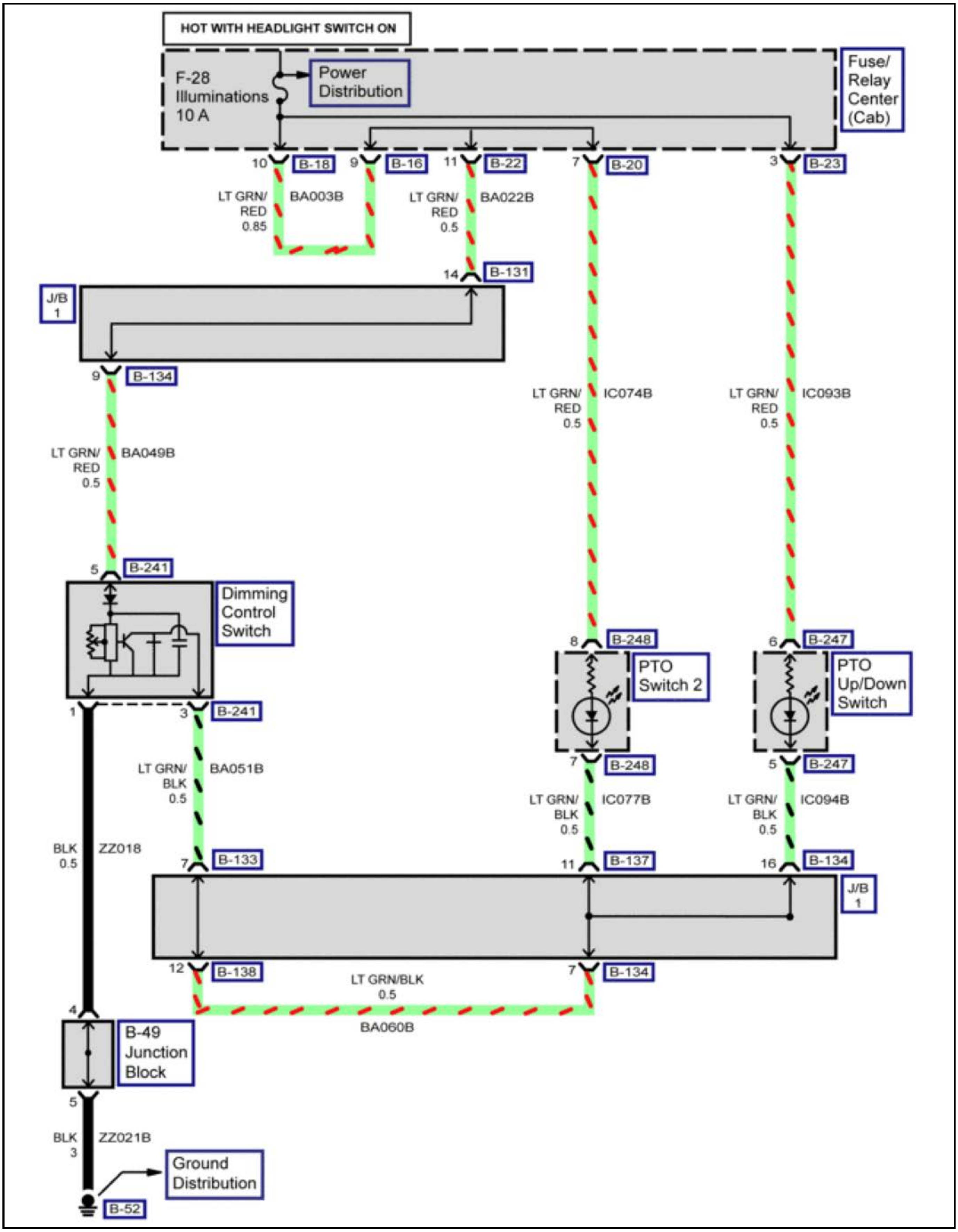
4892275

Interior Lights Schematics (Hazard, Heated Mirror and Door Lock Switch)


HOT WITH HEADLIGHT SWITCH ON
F-28 Illuminations 10 A
Power Distribution
Fuse/ Relay Center (Cab)
10 B-18
9 B-16
11 B-22
LT GRN/ RED 0.85
BA003B
LT GRN/ RED 0.5
BA022B
14 B-131
J/B 1
9 B-134
15 B-132
8 B-134
8 B-138
LT GRN/ RED 0.5
BA049B
BA019B
BA012B
BA042B
5 B-241
Dimming Control Switch
8 B-170
Hazard Switch
8 B-174
Heated Mirror Switch
6 B-240
Door Lock Switch
1
3 B-241
7 B-170
7 B-174
5 B-240
LT GRN/ BLK 0.5
BA051B
BA043B
BA006B
BA026B
BLK 0.5
ZZ018B
7 B-133
9 B-135
6
8 B-133
J/B 1
4
B-49 Junction Block
5
BLK 3
ZZ021B
Ground Distribution
B-52

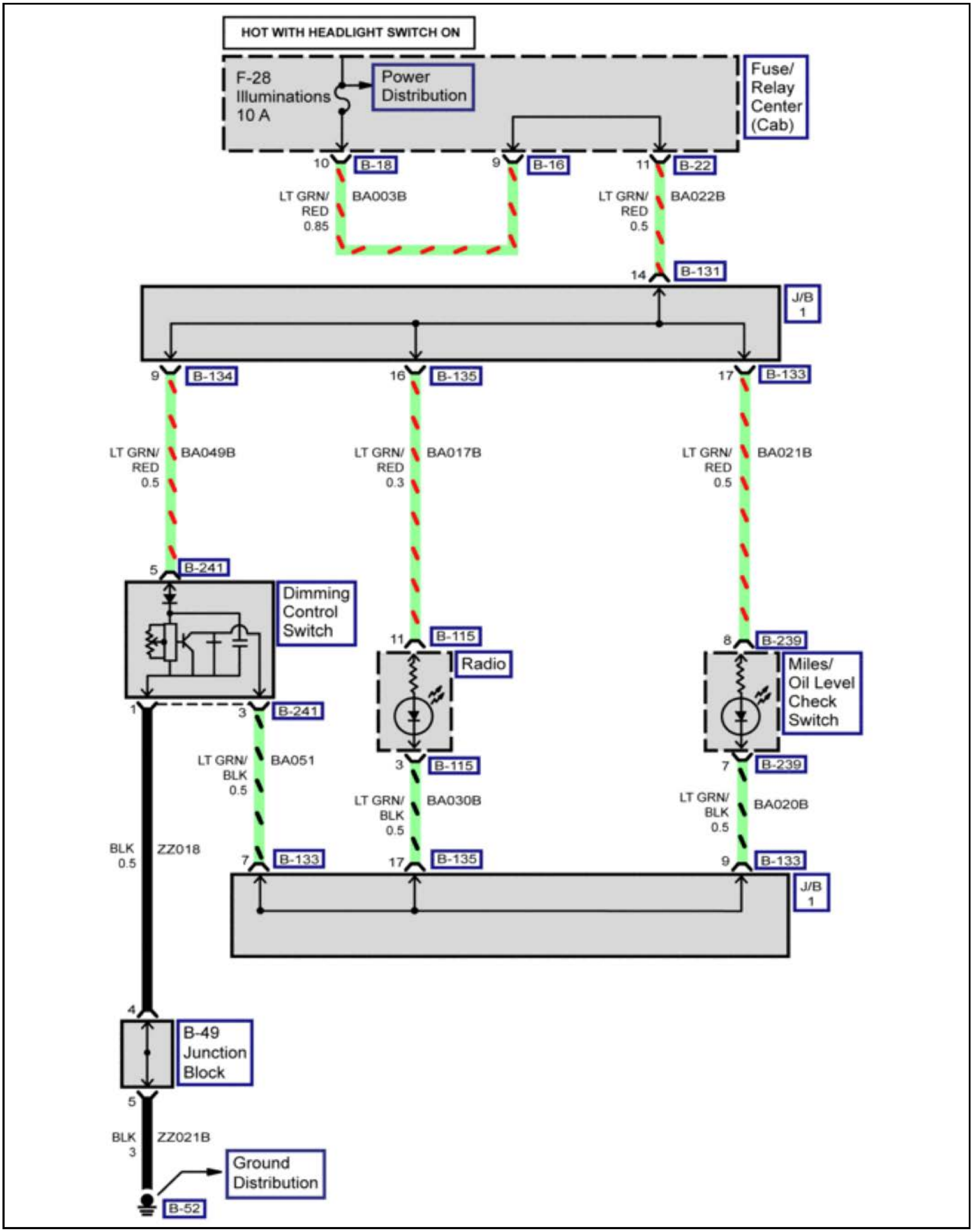
4892280

Interior Lights Schematics (PTO Up/Down and PTO Switch)


HOT WITH HEADLIGHT SWITCH ON
F-28
Illuminations
10 A
Power Distribution
Fuse/ Relay Center (Cab)
10 B-18
9 B-16
11 B-22
7 B-20
3 B-23
LT GRN/ RED 0.85
BA003B
LT GRN/ RED 0.5
BA022B
14 B-131
J/B 1
9 B-134
LT GRN/ RED 0.5
BA049B
LT GRN/ RED 0.5
IC074B
LT GRN/ RED 0.5
IC093B
5 B-241
Dimming Control Switch
8 B-248
PTO Switch 2
6 B-247
PTO Up/Down Switch
1
3 B-241
7 B-248
5 B-247
LT GRN/ BLK 0.5
BA051B
LT GRN/ BLK 0.5
IC077B
LT GRN/ BLK 0.5
IC094B
BLK 0.5
ZZ018
7 B-133
11 B-137
16 B-134
J/B 1
12 B-138
7 B-134
LT GRN/BLK 0.5
BA060B
4
B-49 Junction Block
5
BLK 3
ZZ021B
Ground Distribution
B-52

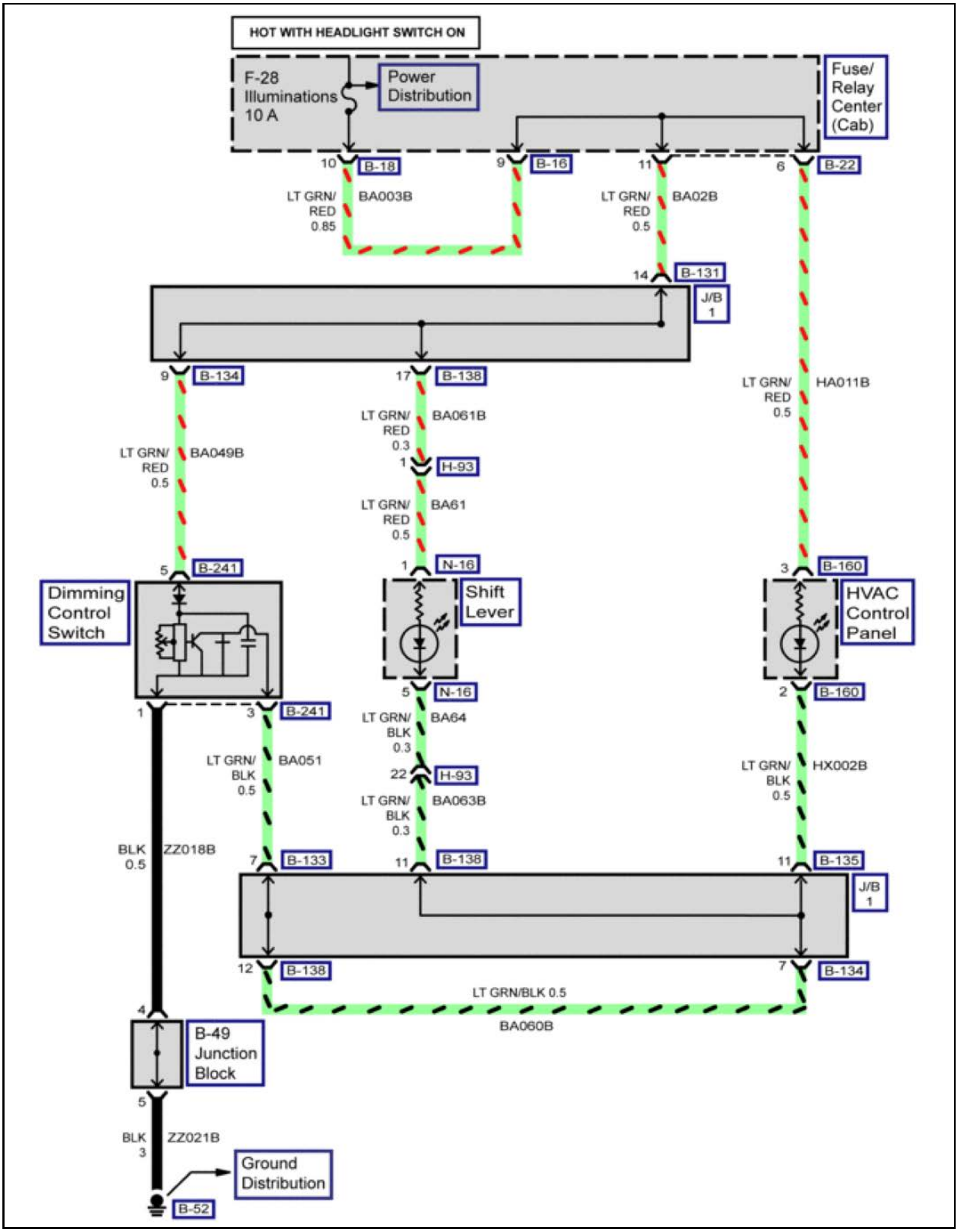
4892286

Interior Lights Schematics (Miles/Oil Level Check Switch and Radio)


HOT WITH HEADLIGHT SWITCH ON
F-28
Illuminations
10 A
Power
Distribution
Fuse/
Relay
Center
(Cab)
10
B-18
9
B-16
11
B-22
LT GRN/
RED
0.85
BA003B
LT GRN/
RED
0.5
BA022B
14
B-131
J/B
1
9
B-134
16
B-135
17
B-133
LT GRN/
RED
0.5
BA049B
LT GRN/
RED
0.3
BA017B
LT GRN/
RED
0.5
BA021B
5
B-241
Dimming
Control
Switch
11
B-115
Radio
8
B-239
Miles/
Oil Level
Check
Switch
1
3
B-241
LT GRN/
BLK
0.5
BA051
3
B-115
LT GRN/
BLK
0.5
BA030B
7
B-239
LT GRN/
BLK
0.5
BA020B
BLK
0.5
ZZ018
7
B-133
17
B-135
9
B-133
J/B
1
4
B-49
Junction
Block
5
BLK
3
ZZ021B
Ground
Distribution
B-52

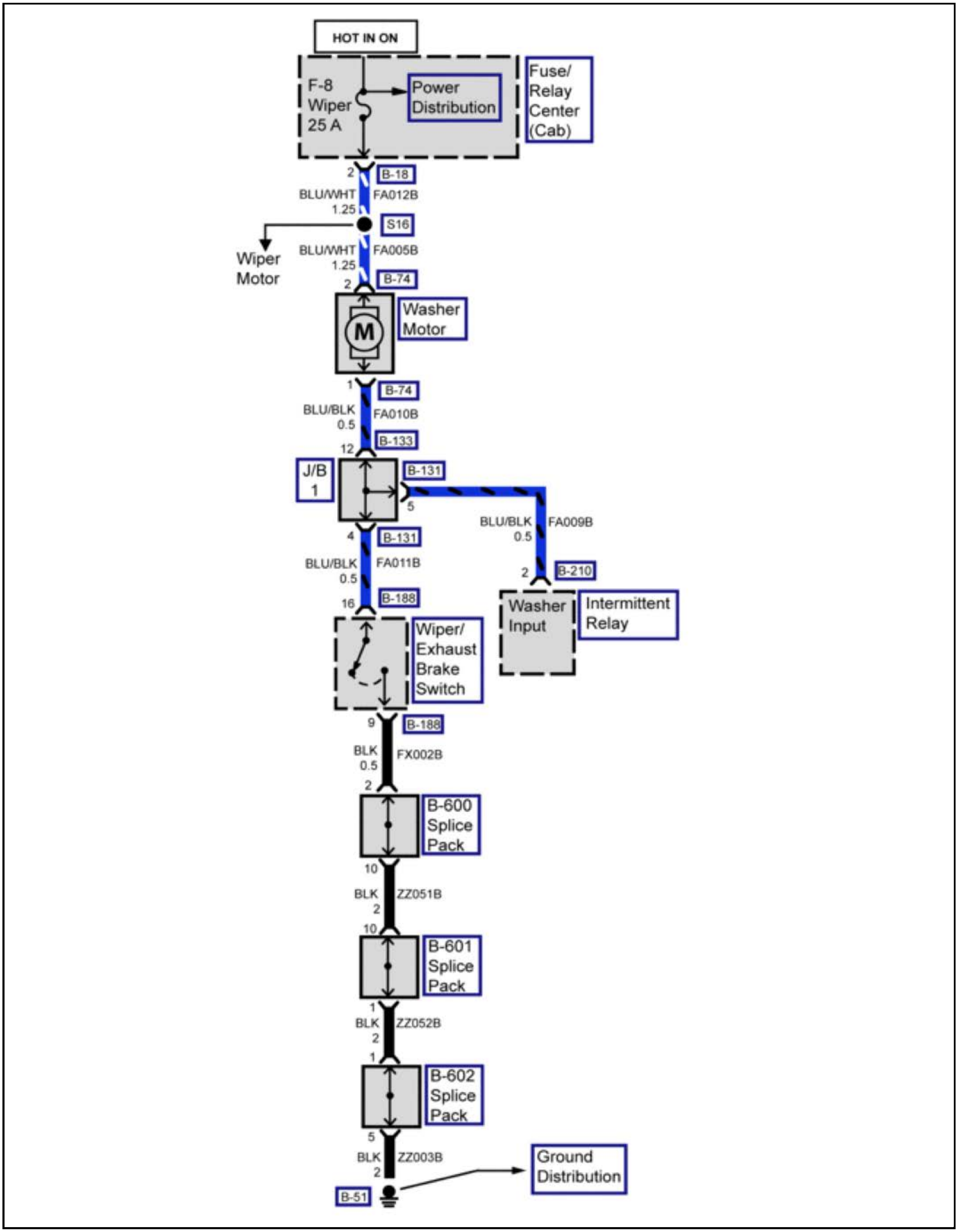
4892289

Interior Lights Schematics (HVAC Control Panel and Shift Lever)


HOT WITH HEADLIGHT SWITCH ON
F-28
Illuminations
10 A
Power Distribution
Fuse/ Relay Center (Cab)
10 B-18
9 B-16
11
6 B-22
LT GRN/ RED 0.85
BA003B
LT GRN/ RED 0.5
BA02B
14 B-131
J/B 1
9 B-134
17 B-138
LT GRN/ RED 0.5
HA011B
LT GRN/ RED 0.3
BA061B
1 H-93
LT GRN/ RED 0.5
BA049B
LT GRN/ RED 0.5
BA61
5 B-241
1 N-16
3 B-160
Dimming Control Switch
Shift Lever
HVAC Control Panel
1
3 B-241
5 N-16
2 B-160
LT GRN/ BLK 0.3
BA64
LT GRN/ BLK 0.5
BA051
22 H-93
LT GRN/ BLK 0.5
HX002B
LT GRN/ BLK 0.3
BA063B
BLK 0.5
ZZ018B
7 B-133
11 B-138
11 B-135
J/B 1
12 B-138
7 B-134
LT GRN/BLK 0.5
BA060B
4
B-49 Junction Block
5
BLK 3
ZZ021B
Ground Distribution
B-52

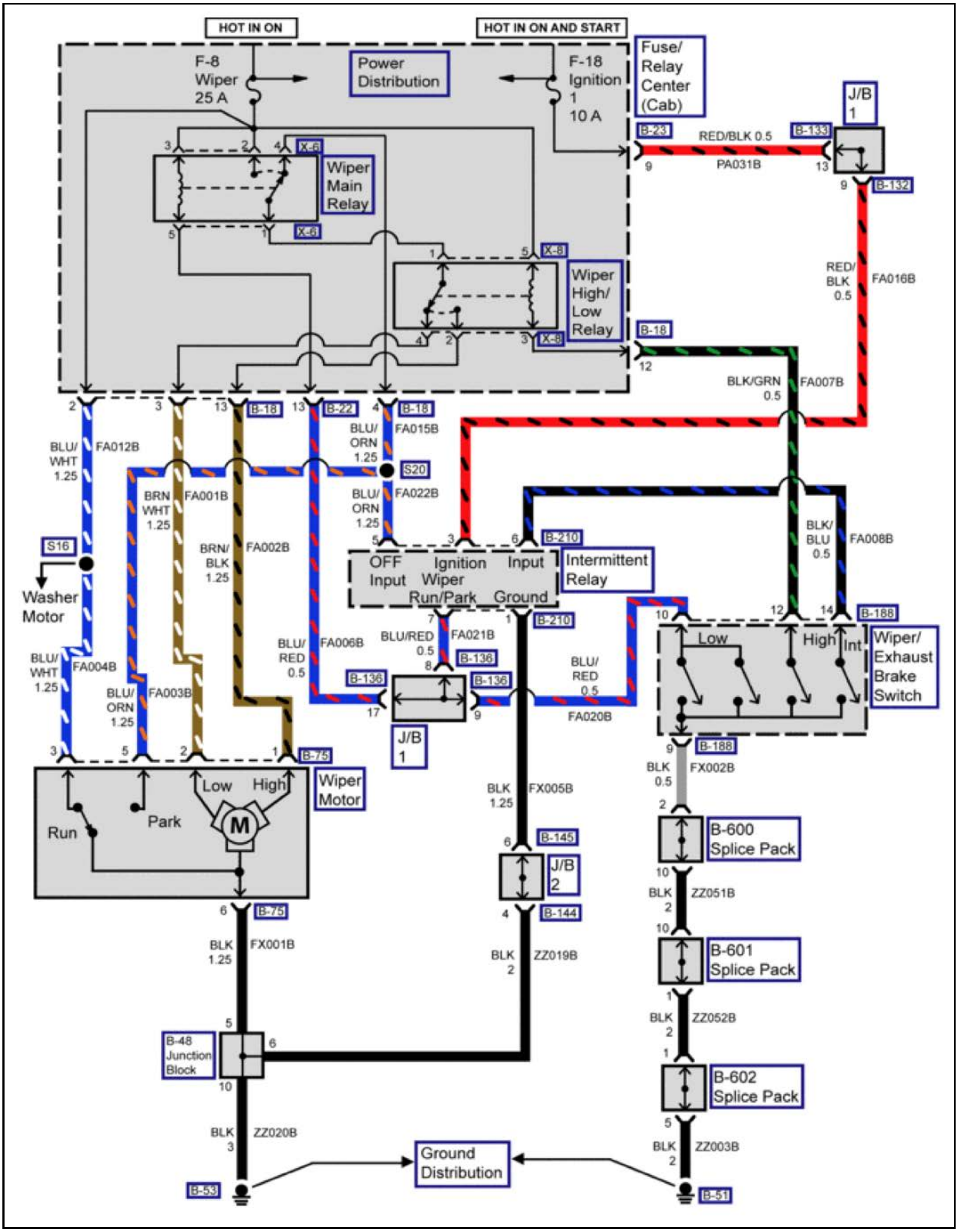
4892294

Wiper/Washer Schematics (Washers)


HOT IN ON
F-8
Wiper
25 A
Power Distribution
Fuse/ Relay Center (Cab)
2
B-18
BLU/WHT
1.25
FA012B
S16
Wiper Motor
BLU/WHT
1.25
FA005B
2
B-74
M
Washer Motor
1
B-74
BLU/BLK
0.5
FA010B
12
B-133
J/B 1
B-131
5
BLU/BLK
0.5
FA009B
4
B-131
BLU/BLK
0.5
FA011B
16
B-188
2
B-210
Washer Input
Intermittent Relay
Wiper/ Exhaust Brake Switch
9
B-188
BLK
0.5
FX002B
2
B-600 Splice Pack
10
BLK
2
ZZ051B
10
B-601 Splice Pack
1
BLK
2
ZZ052B
1
B-602 Splice Pack
5
BLK
2
ZZ003B
B-51
Ground Distribution

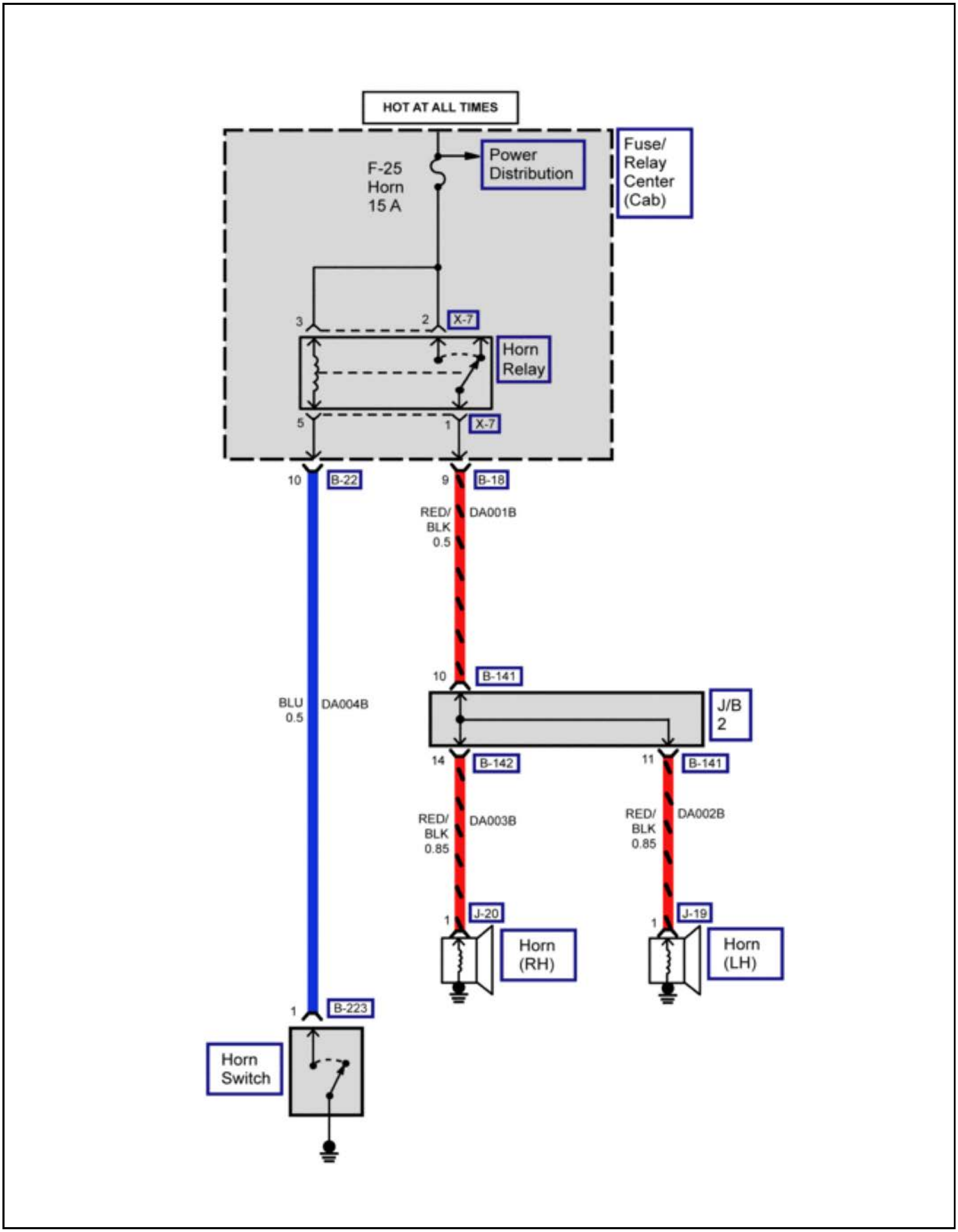
4892391

Wiper/Washer Schematics (Wipers)


HOT IN ON
HOT IN ON AND START
F-8 Wiper 25 A
Power Distribution
F-18 Ignition 1 10 A
Fuse/ Relay Center (Cab)
J/B 1
X-6
Wiper Main Relay
X-8
Wiper High/ Low Relay
B-23
RED/BLK 0.5
PA031B
B-133
B-132
RED/ BLK 0.5
FA016B
B-18
BLK/GRN 0.5
FA007B
B-18
B-22
B-18
BLU/ WHT 1.25
FA012B
BLU/ ORN 1.25
FA015B
S20
BRN WHT 1.25
FA001B
BLU/ ORN 1.25
FA022B
BRN/ BLK 1.25
FA002B
S16
Washer Motor
B-210
OFF Input
Ignition Wiper Run/Park
Input Ground
Intermittent Relay
BLK/ BLU 0.5
FA008B
B-188
BLU/ WHT 1.25
FA004B
BLU/ ORN 1.25
FA003B
BLU/ RED 0.5
FA006B
BLU/RED 0.5
FA021B
B-136
B-136
B-136
BLU/ RED 0.5
FA020B
Low
High
Int
Wiper/ Exhaust Brake Switch
J/B 1
B-75
Wiper Motor
Run
Park
Low
High
M
BLK 1.25
FX005B
B-188
BLK 0.5
FX002B
B-600 Splice Pack
B-145
J/B 2
B-144
B-75
BLK 1.25
FX001B
BLK 2
ZZ019B
BLK 2
ZZ051B
B-601 Splice Pack
BLK 2
ZZ052B
B-48 Junction Block
B-602 Splice Pack
BLK 3
ZZ020B
BLK 2
ZZ003B
Ground Distribution
B-53
B-51

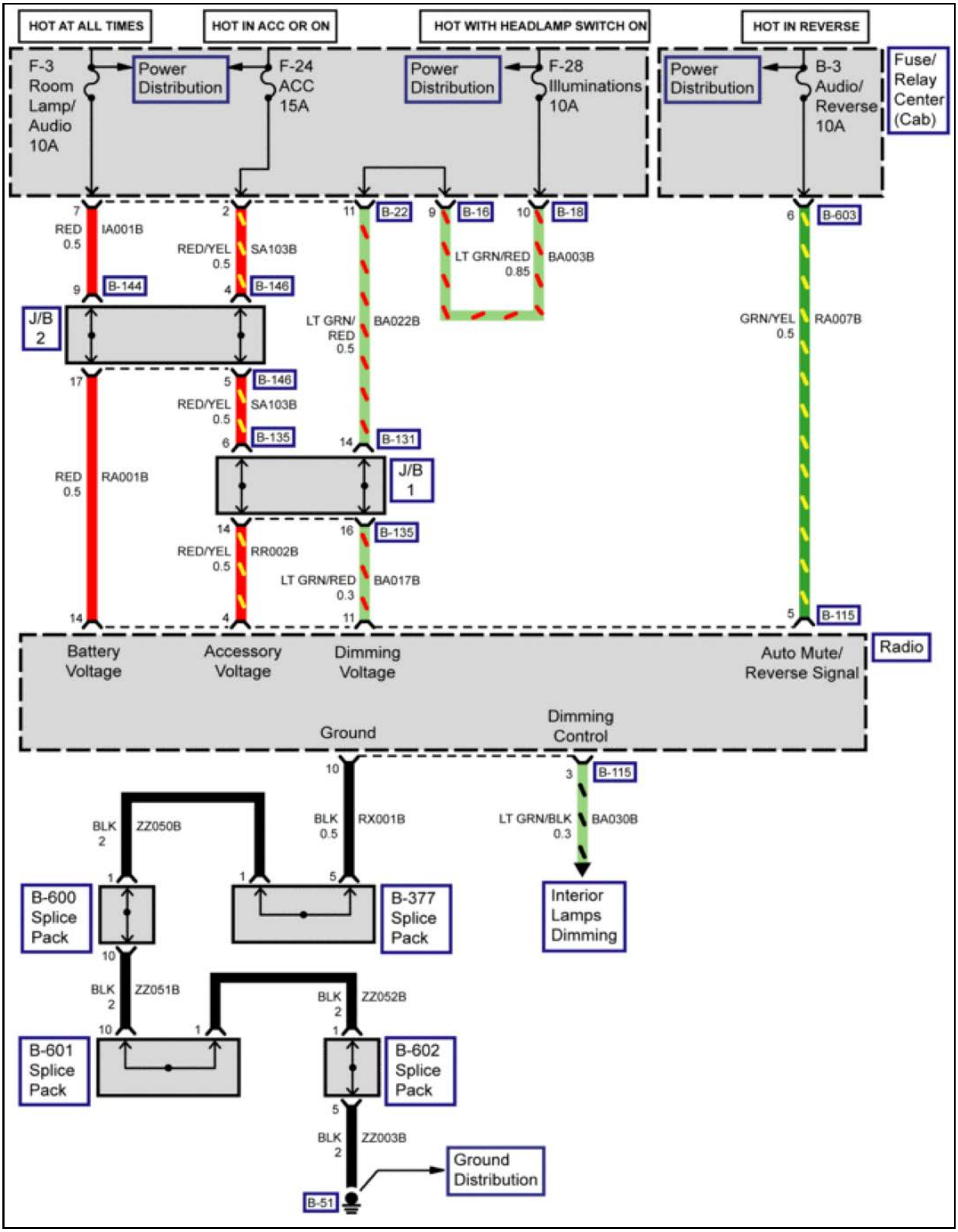
4892398

Horn Schematics


HOT AT ALL TIMES
F-25
Horn
15 A
Power
Distribution
Fuse/
Relay
Center
(Cab)
3
2
X-7
Horn
Relay
5
1
X-7
10
B-22
9
B-18
RED/
BLK
0.5
DA001B
BLU
0.5
DA004B
10
B-141
J/B
2
14
B-142
11
B-141
RED/
BLK
0.85
DA003B
RED/
BLK
0.85
DA002B
1
J-20
Horn
(RH)
1
J-19
Horn
(LH)
1
B-223
Horn
Switch

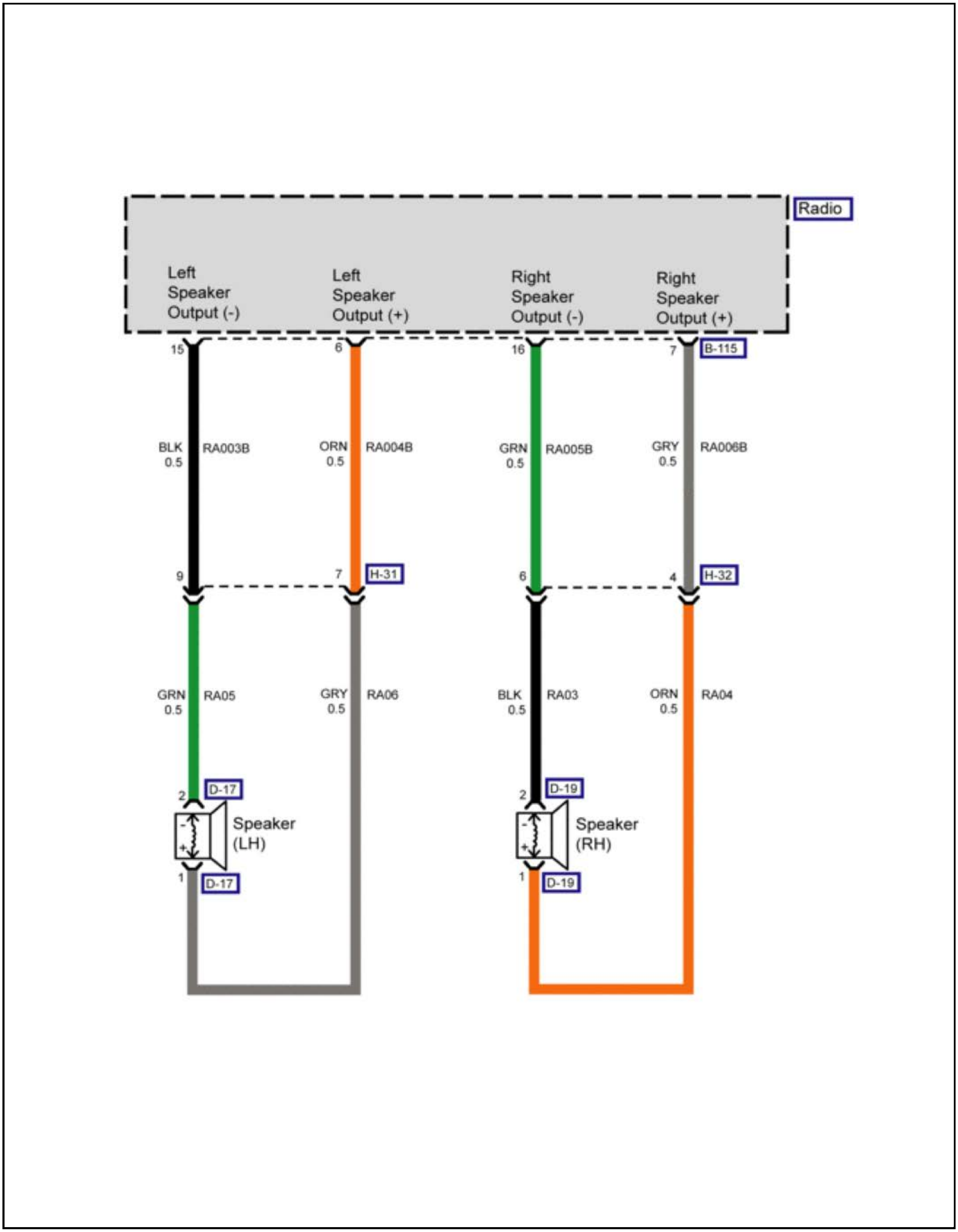
4891991

Radio and Cigarette Lighter Schematics (Power and Ground)


HOT AT ALL TIMES
HOT IN ACC OR ON
HOT WITH HEADLAMP SWITCH ON
HOT IN REVERSE
F-3 Room Lamp/ Audio 10A
Power Distribution
F-24 ACC 15A
Power Distribution
F-28 Illuminations 10A
Power Distribution
B-3 Audio/ Reverse 10A
Fuse/ Relay Center (Cab)
7
RED 0.5
IA001B
2
RED/YEL 0.5
SA103B
11
B-22
9
B-16
10
B-18
LT GRN/RED 0.85
BA003B
6
B-603
9
B-144
4
B-146
J/B 2
LT GRN/ RED 0.5
BA022B
GRN/YEL 0.5
RA007B
17
5
B-146
RED/YEL 0.5
SA103B
6
B-135
14
B-131
RED 0.5
RA001B
J/B 1
14
RED/YEL 0.5
RR002B
16
B-135
LT GRN/RED 0.3
BA017B
14
4
11
5
B-115
Battery Voltage
Accessory Voltage
Dimming Voltage
Auto Mute/ Reverse Signal
Radio
Ground
Dimming Control
10
3
B-115
BLK 2
ZZ050B
BLK 0.5
RX001B
LT GRN/BLK 0.3
BA030B
1
1
5
B-600 Splice Pack
B-377 Splice Pack
Interior Lamps Dimming
10
BLK 2
ZZ051B
BLK 2
ZZ052B
10
1
1
B-601 Splice Pack
B-602 Splice Pack
5
BLK 2
ZZ003B
Ground Distribution
B-51

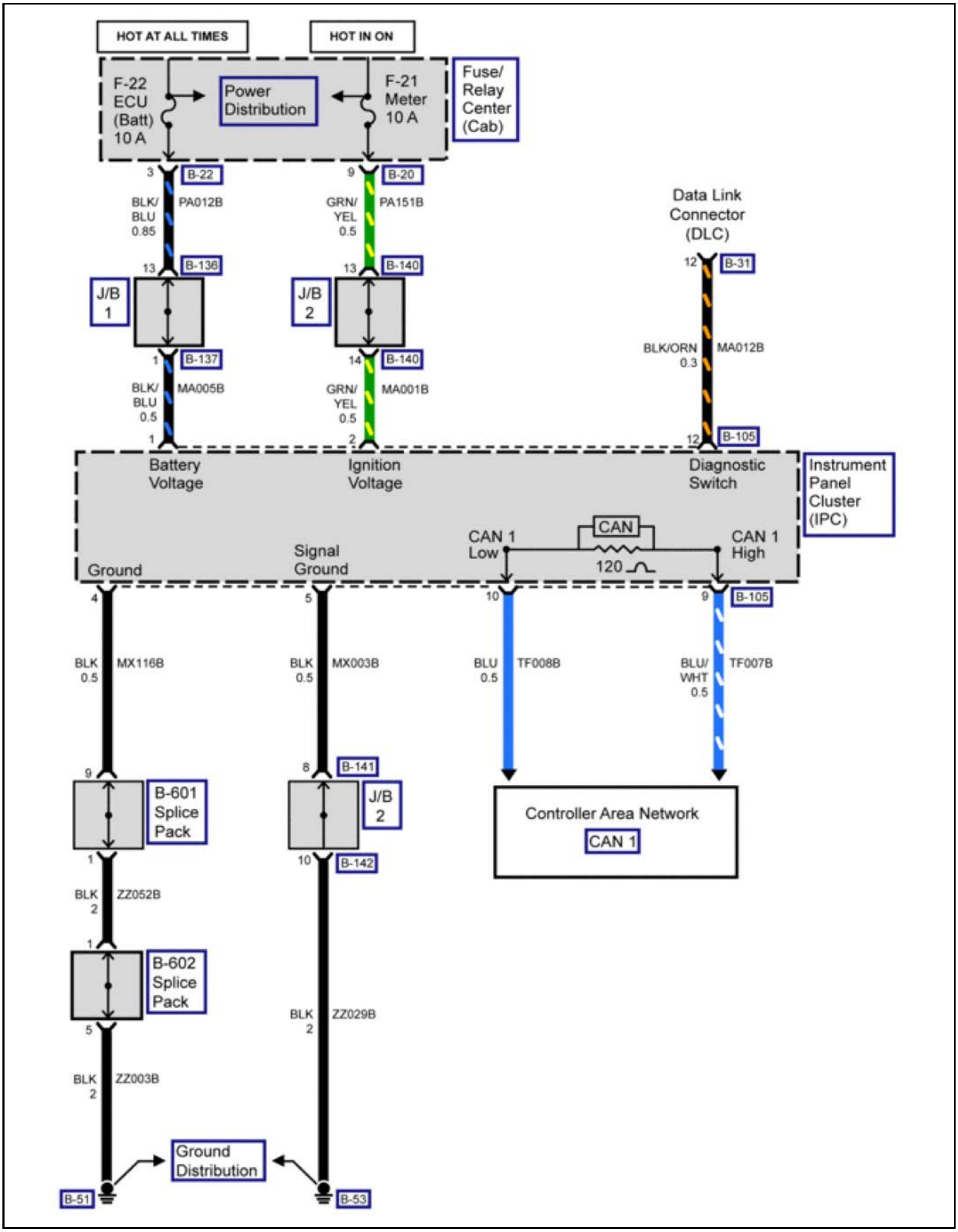
4891765

Radio and Cigarette Lighter Schematics (Speakers)


Radio
Left Speaker Output (-)
Left Speaker Output (+)
Right Speaker Output (-)
Right Speaker Output (+)
15
6
16
7
B-115
BLK 0.5
RA003B
ORN 0.5
RA004B
GRN 0.5
RA005B
GRY 0.5
RA006B
9
7
H-31
6
4
H-32
GRN 0.5
RA05
GRY 0.5
RA06
BLK 0.5
RA03
ORN 0.5
RA04
2
D-17
Speaker (LH)
1
D-17
2
D-19
Speaker (RH)
1
D-19

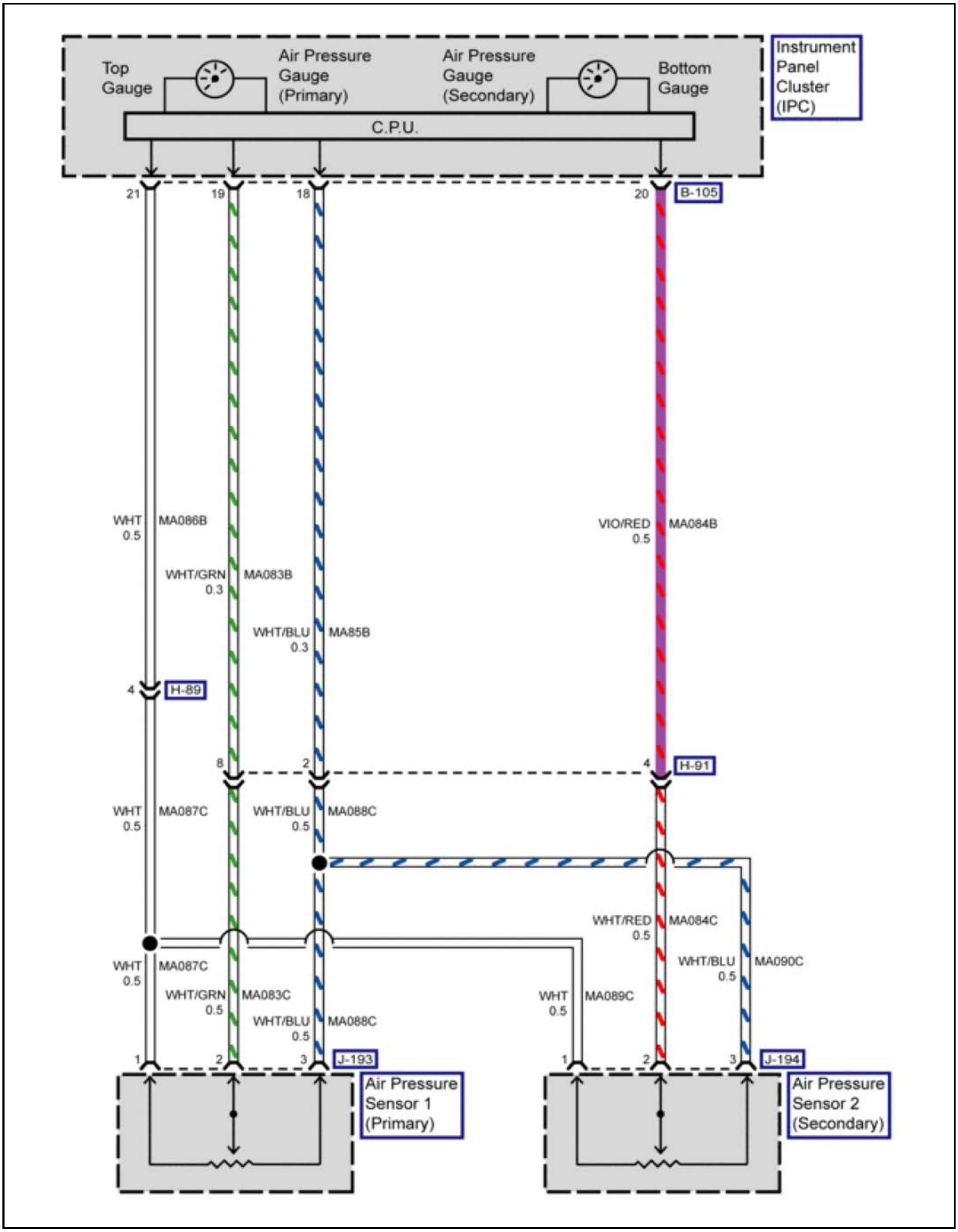
4891768

Instrument Cluster Schematics (Power, Ground and Communication)


HOT AT ALL TIMES
HOT IN ON
F-22 ECU (Batt) 10 A
Power Distribution
F-21 Meter 10 A
Fuse/ Relay Center (Cab)
3
B-22
BLK/ BLU 0.85
PA012B
13
B-136
J/B 1
1
B-137
BLK/ BLU 0.5
MA005B
9
B-20
GRN/ YEL 0.5
PA151B
13
B-140
J/B 2
14
B-140
GRN/ YEL 0.5
MA001B
Data Link Connector (DLC)
12
B-31
BLK/ORN 0.3
MA012B
12
B-105
1
2
Battery Voltage
Ignition Voltage
Diagnostic Switch
Instrument Panel Cluster (IPC)
CAN
120
CAN 1 Low
CAN 1 High
Ground
Signal Ground
4
BLK 0.5
MX116B
9
B-601 Splice Pack
1
BLK 2
ZZ052B
1
B-602 Splice Pack
5
BLK 2
ZZ003B
B-51
5
BLK 0.5
MX003B
8
B-141
J/B 2
10
B-142
BLK 2
ZZ029B
B-53
Ground Distribution
10
BLU 0.5
TF008B
9
B-105
BLU/ WHT 0.5
TF007B
Controller Area Network
CAN 1

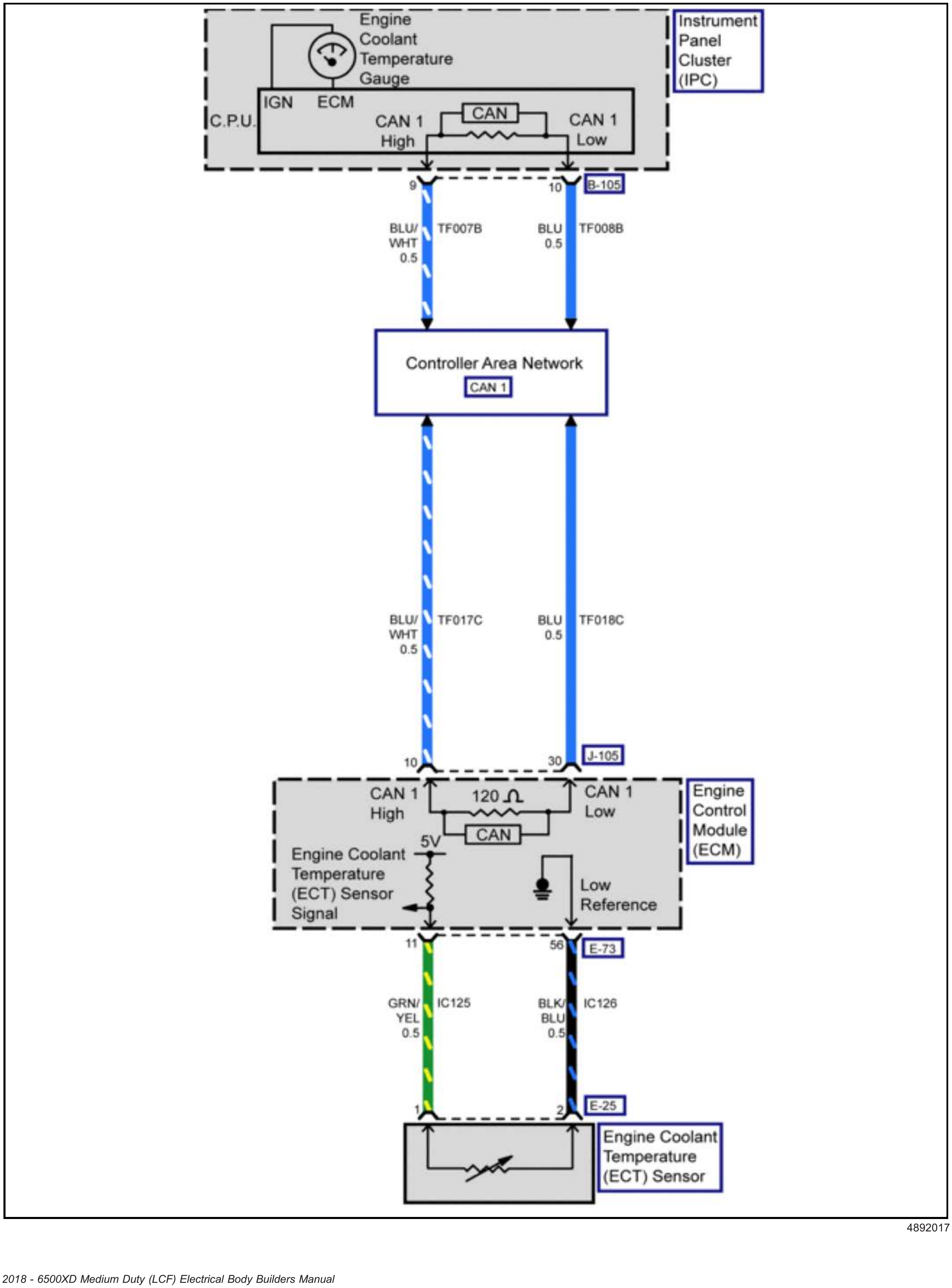
4892012

Instrument Cluster Schematics (Air Pressure Gauge)


Top Gauge
Air Pressure Gauge (Primary)
Air Pressure Gauge (Secondary)
Bottom Gauge
Instrument Panel Cluster (IPC)
C.P.U.
21
19
18
20
B-105
WHT 0.5
MA086B
WHT/GRN 0.3
MA083B
WHT/BLU 0.3
MA85B
VIO/RED 0.5
MA084B
4
H-89
8
2
4
H-91
WHT 0.5
MA087C
WHT/BLU 0.5
MA088C
WHT/RED 0.5
MA084C
WHT/BLU 0.5
MA090C
WHT 0.5
MA087C
WHT/GRN 0.5
MA083C
WHT/BLU 0.5
MA088C
WHT 0.5
MA089C
1
2
3
J-193
1
2
3
J-194
Air Pressure Sensor 1 (Primary)
Air Pressure Sensor 2 (Secondary)

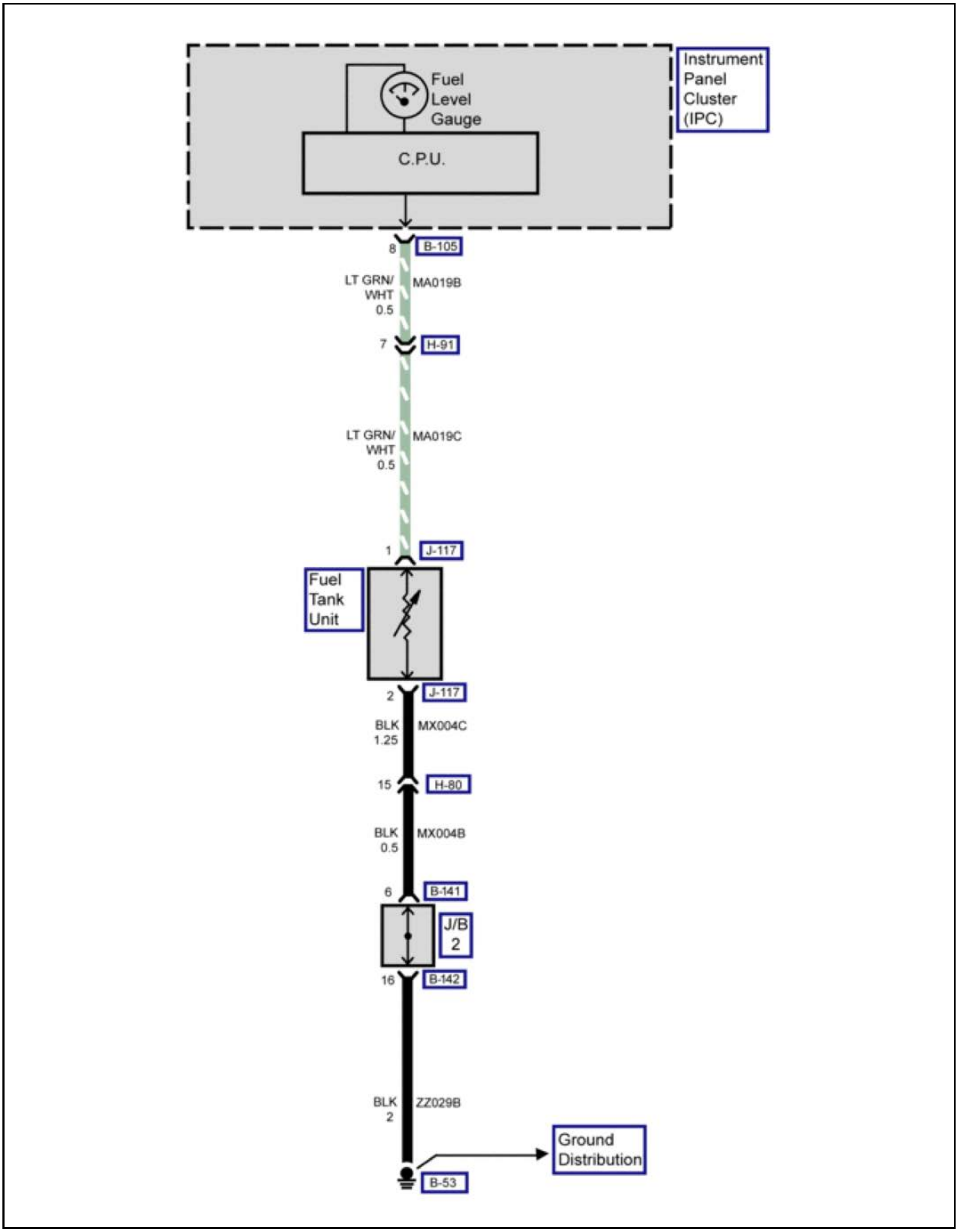
4892015

Instrument Cluster Schematics (Engine Coolant Temperature Gauge)


Engine
Coolant
Temperature
Gauge
Instrument
Panel
Cluster
(IPC)
C.P.U.
IGN
ECM
CAN 1
High
CAN
CAN 1
Low
9
10
B-105
BLU/
WHT
0.5
TF007B
BLU
0.5
TF008B
Controller Area Network
CAN 1
BLU/
WHT
0.5
TF017C
BLU
0.5
TF018C
10
30
J-105
CAN 1
High
120 Ω
CAN
CAN 1
Low
Engine
Control
Module
(ECM)
5V
Engine Coolant
Temperature
(ECT) Sensor
Signal
Low
Reference
11
56
E-73
GRN/
YEL
0.5
IC125
BLK/
BLU
0.5
IC126
1
2
E-25
Engine Coolant
Temperature
(ECT) Sensor

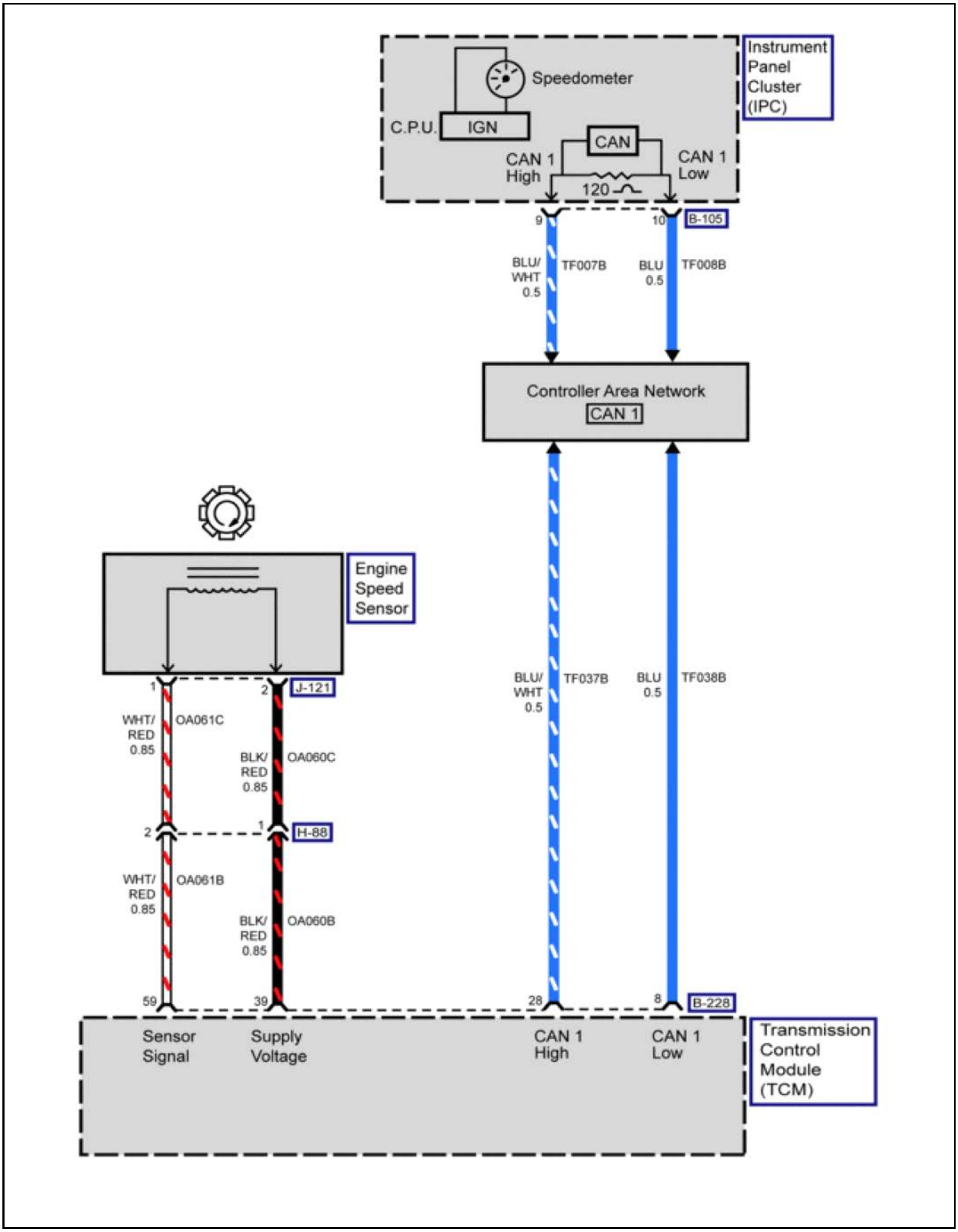
4892017

Instrument Cluster Schematics (Fuel Level Gauge)


Fuel
Level
Gauge
C.P.U.
Instrument
Panel
Cluster
(IPC)
8
B-105
LT GRN/
WHT
0.5
MA019B
7
H-91
LT GRN/
WHT
0.5
MA019C
1
J-117
Fuel
Tank
Unit
2
J-117
BLK
1.25
MX004C
15
H-80
BLK
0.5
MX004B
6
B-141
J/B
2
16
B-142
BLK
2
ZZ029B
Ground
Distribution
B-53

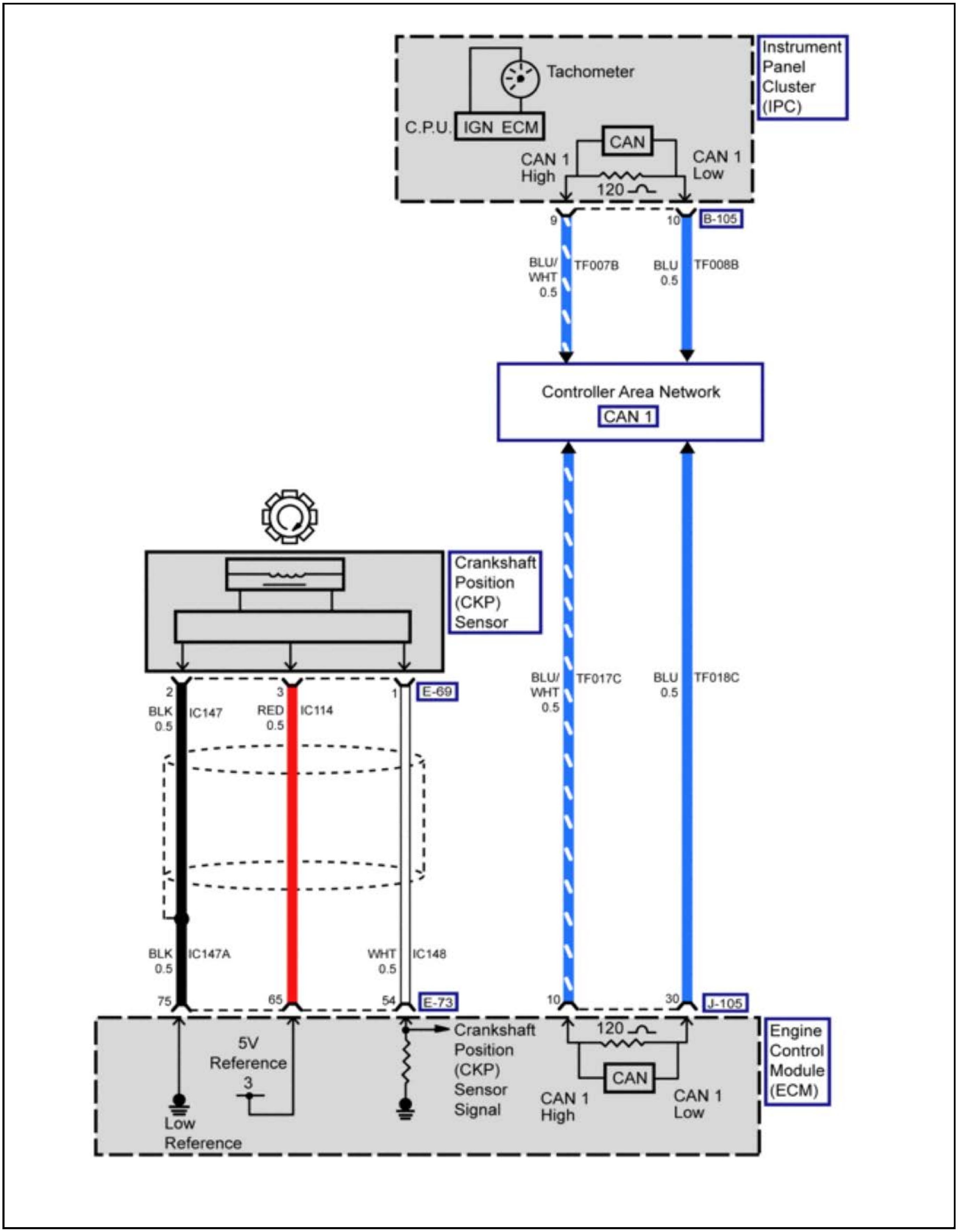
4892034

Instrument Cluster Schematics (Speedometer Gauge)


Speedometer
Instrument Panel Cluster (IPC)
C.P.U.
IGN
CAN
CAN 1 High
CAN 1 Low
120
9
10
B-105
BLU/ WHT 0.5
TF007B
BLU 0.5
TF008B
Controller Area Network
CAN 1
Engine Speed Sensor
1
2
J-121
WHT/ RED 0.85
OA061C
BLK/ RED 0.85
OA060C
2
1
H-88
WHT/ RED 0.85
OA061B
BLK/ RED 0.85
OA060B
BLU/ WHT 0.5
TF037B
BLU 0.5
TF038B
59
39
28
8
B-228
Sensor Signal
Supply Voltage
CAN 1 High
CAN 1 Low
Transmission Control Module (TCM)

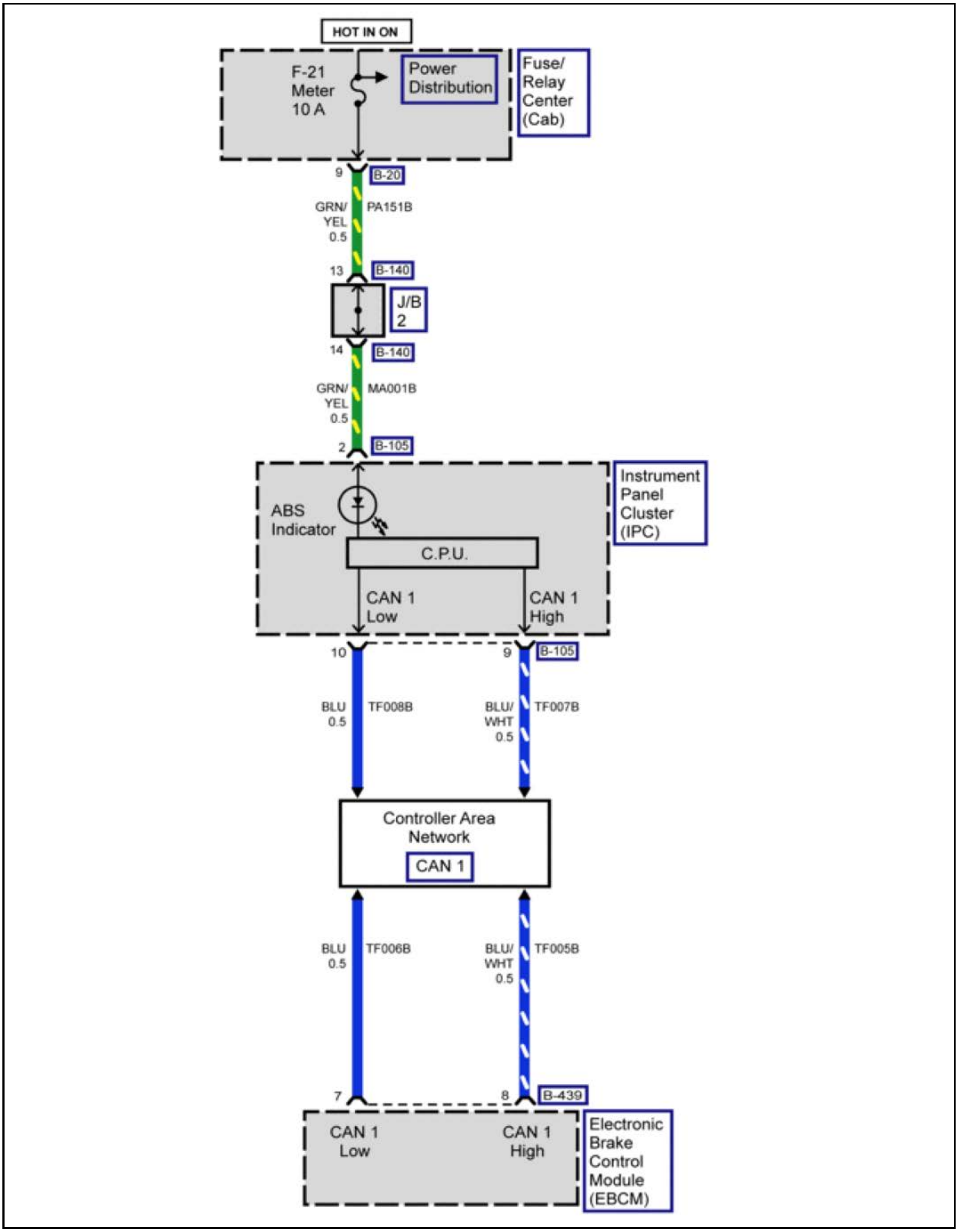
4892039

Instrument Cluster Schematics (Tachometer Gauge)


Instrument Panel Cluster (IPC)
Tachometer
C.P.U.
IGN ECM
CAN
CAN 1 High
CAN 1 Low
120
9
10
B-105
BLU/WHT 0.5
TF007B
BLU 0.5
TF008B
Controller Area Network
CAN 1
Crankshaft Position (CKP) Sensor
2
3
1
E-69
BLK 0.5
IC147
RED 0.5
IC114
BLU/WHT 0.5
TF017C
BLU 0.5
TF018C
BLK 0.5
IC147A
WHT 0.5
IC148
75
65
54
E-73
10
30
J-105
5V Reference
3
Low Reference
Crankshaft Position (CKP) Sensor Signal
120
CAN
CAN 1 High
CAN 1 Low
Engine Control Module (ECM)

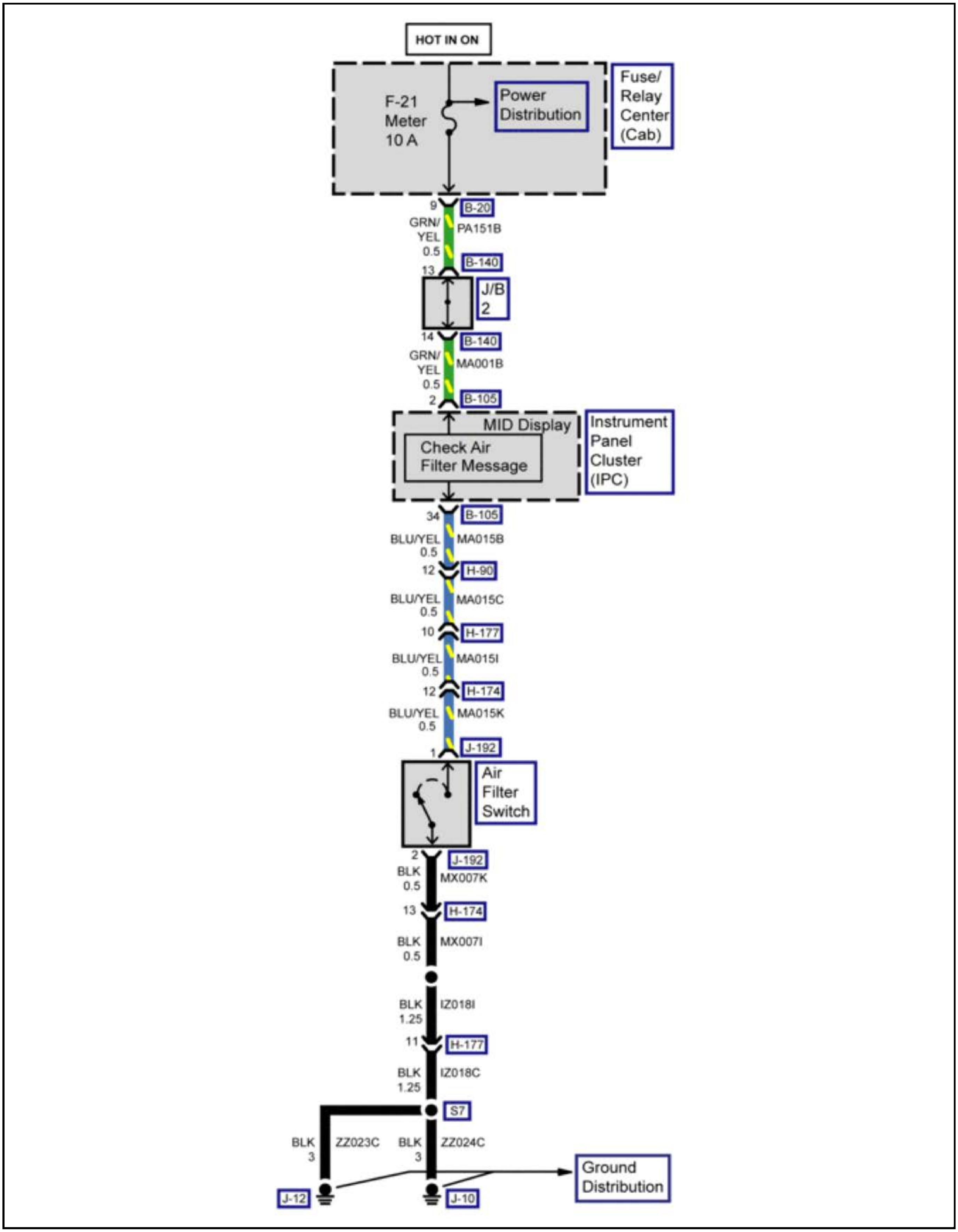
4892044

Instrument Cluster Schematics (ABS Indicator)


HOT IN ON
F-21
Meter
10 A
Power
Distribution
Fuse/
Relay
Center
(Cab)
9
B-20
GRN/
YEL
0.5
PA151B
13
B-140
J/B
2
14
B-140
GRN/
YEL
0.5
MA001B
2
B-105
ABS
Indicator
Instrument
Panel
Cluster
(IPC)
C.P.U.
CAN 1
Low
CAN 1
High
10
9
B-105
BLU
0.5
TF008B
BLU/
WHT
0.5
TF007B
Controller Area
Network
CAN 1
BLU
0.5
TF006B
BLU/
WHT
0.5
TF005B
7
8
B-439
CAN 1
Low
CAN 1
High
Electronic
Brake
Control
Module
(EBCM)

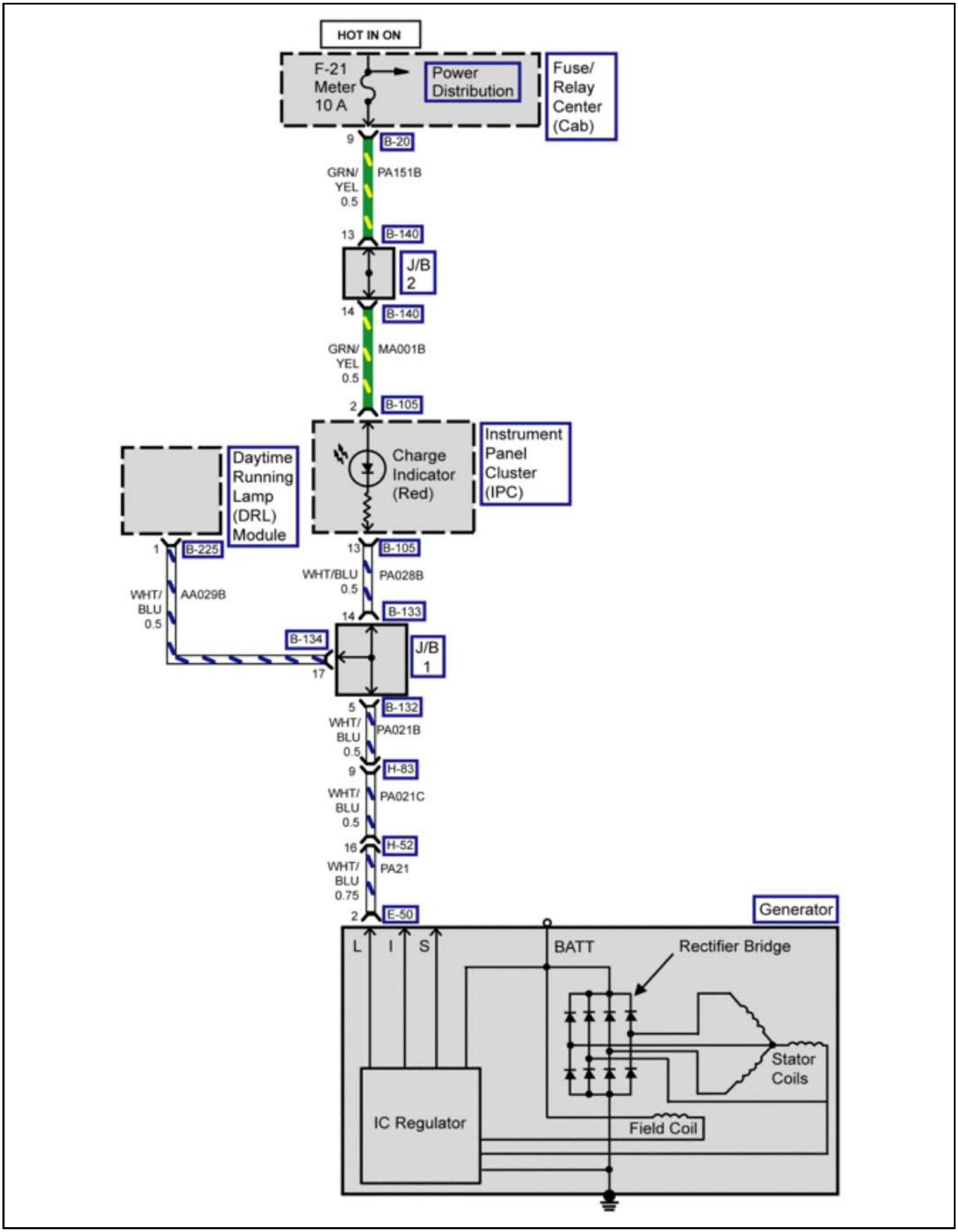
4892047

Instrument Cluster Schematics (Air Filter Indicator)


HOT IN ON
F-21
Meter
10 A
Power Distribution
Fuse/ Relay Center (Cab)
9
B-20
GRN/ YEL 0.5
PA151B
13
B-140
J/B 2
14
B-140
GRN/ YEL 0.5
MA001B
2
B-105
MID Display
Check Air Filter Message
Instrument Panel Cluster (IPC)
34
B-105
BLU/YEL 0.5
MA015B
12
H-90
BLU/YEL 0.5
MA015C
10
H-177
BLU/YEL 0.5
MA015I
12
H-174
BLU/YEL 0.5
MA015K
1
J-192
Air Filter Switch
2
J-192
BLK 0.5
MX007K
13
H-174
BLK 0.5
MX007I
BLK 1.25
IZ018I
11
H-177
BLK 1.25
IZ018C
S7
BLK 3
ZZ023C
BLK 3
ZZ024C
Ground Distribution
J-12
J-10

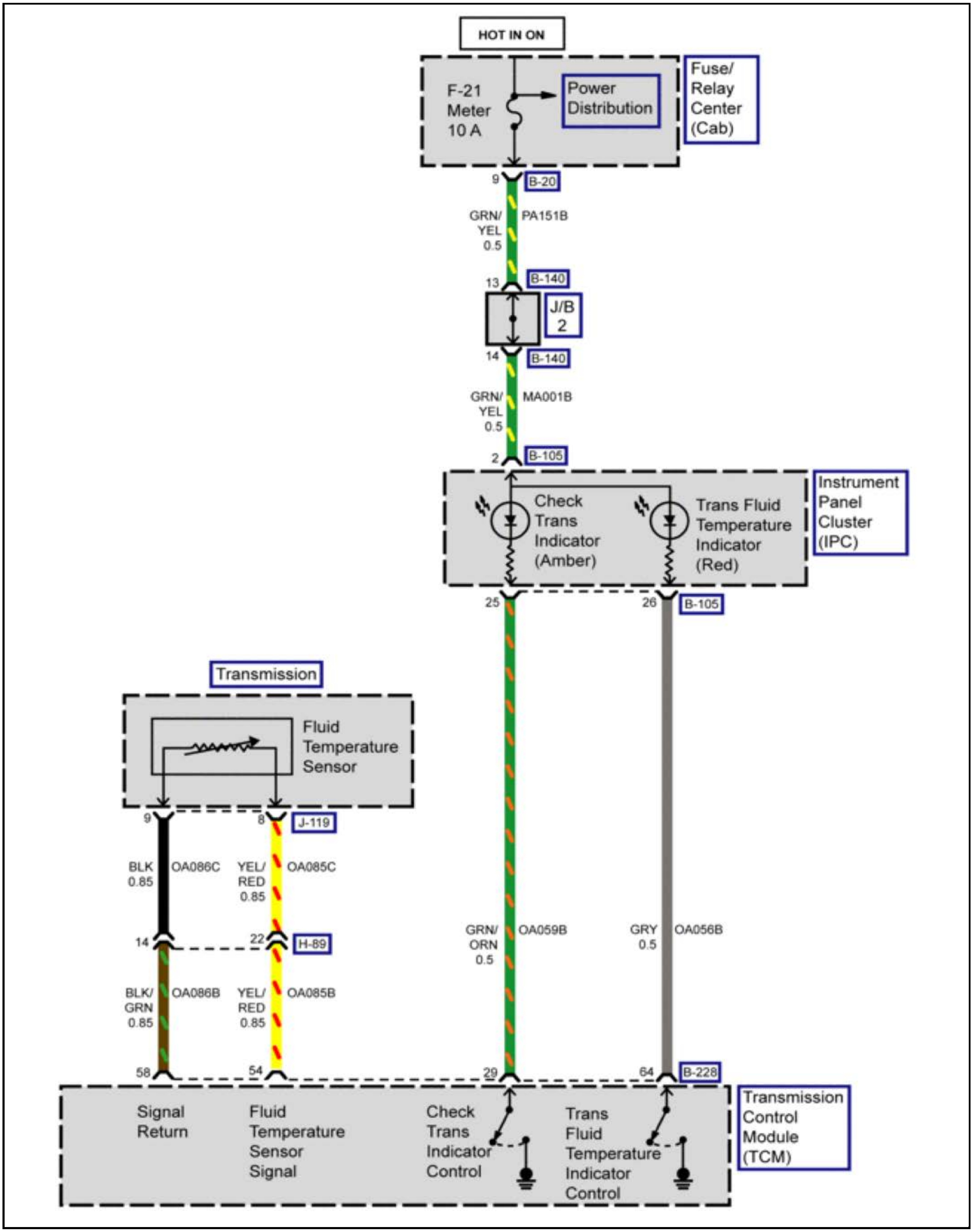
4892052

Instrument Cluster Schematics (Charge Indicator)


HOT IN ON
F-21
Meter
10 A
Power
Distribution
Fuse/
Relay
Center
(Cab)
9
B-20
GRN/
YEL
0.5
PA151B
13
B-140
J/B
2
14
B-140
GRN/
YEL
0.5
MA001B
2
B-105
Charge
Indicator
(Red)
Instrument
Panel
Cluster
(IPC)
Daytime
Running
Lamp
(DRL)
Module
1
B-225
WHT/
BLU
0.5
AA029B
13
B-105
WHT/BLU
0.5
PA028B
14
B-133
B-134
17
J/B
1
5
B-132
WHT/
BLU
0.5
PA021B
9
H-83
WHT/
BLU
0.5
PA021C
16
H-52
WHT/
BLU
0.75
PA21
2
E-50
Generator
L
I
S
BATT
Rectifier Bridge
Stator
Coils
IC Regulator
Field Coil

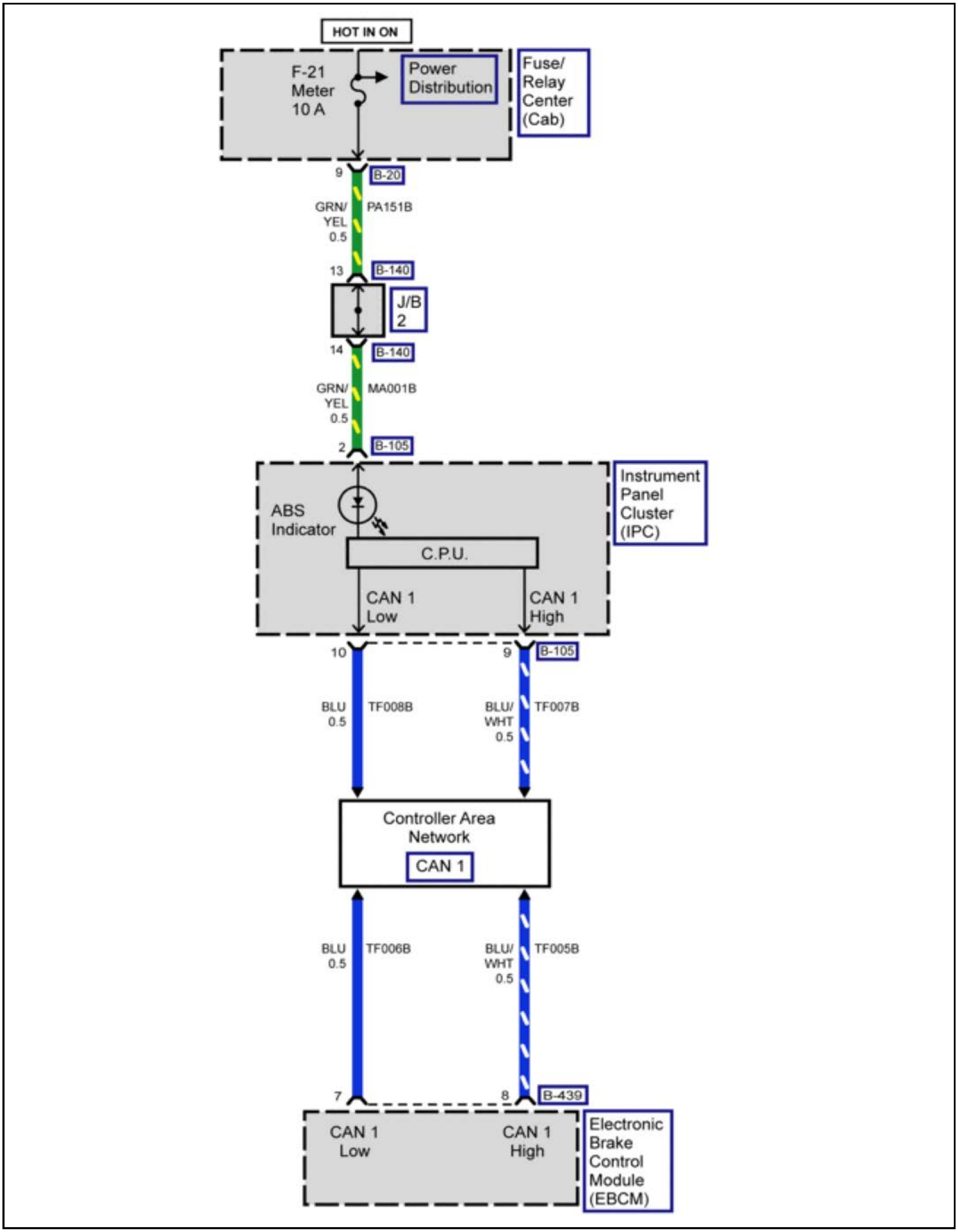
4892057

Instrument Cluster Schematics (Check Transmission and Transmission Fluid Overtemperature)


HOT IN ON
F-21
Meter
10 A
Power
Distribution
Fuse/
Relay
Center
(Cab)
9
B-20
GRN/
YEL
0.5
PA151B
13
B-140
J/B
2
14
B-140
GRN/
YEL
0.5
MA001B
2
B-105
Check
Trans
Indicator
(Amber)
Trans Fluid
Temperature
Indicator
(Red)
Instrument
Panel
Cluster
(IPC)
25
26
B-105
Transmission
Fluid
Temperature
Sensor
9
8
J-119
BLK
0.85
OA086C
YEL/
RED
0.85
OA085C
GRN/
ORN
0.5
OA059B
GRY
0.5
OA056B
14
22
H-89
BLK/
GRN
0.85
OA086B
YEL/
RED
0.85
OA085B
58
54
29
64
B-228
Signal
Return
Fluid
Temperature
Sensor
Signal
Check
Trans
Indicator
Control
Trans
Fluid
Temperature
Indicator
Control
Transmission
Control
Module
(TCM)

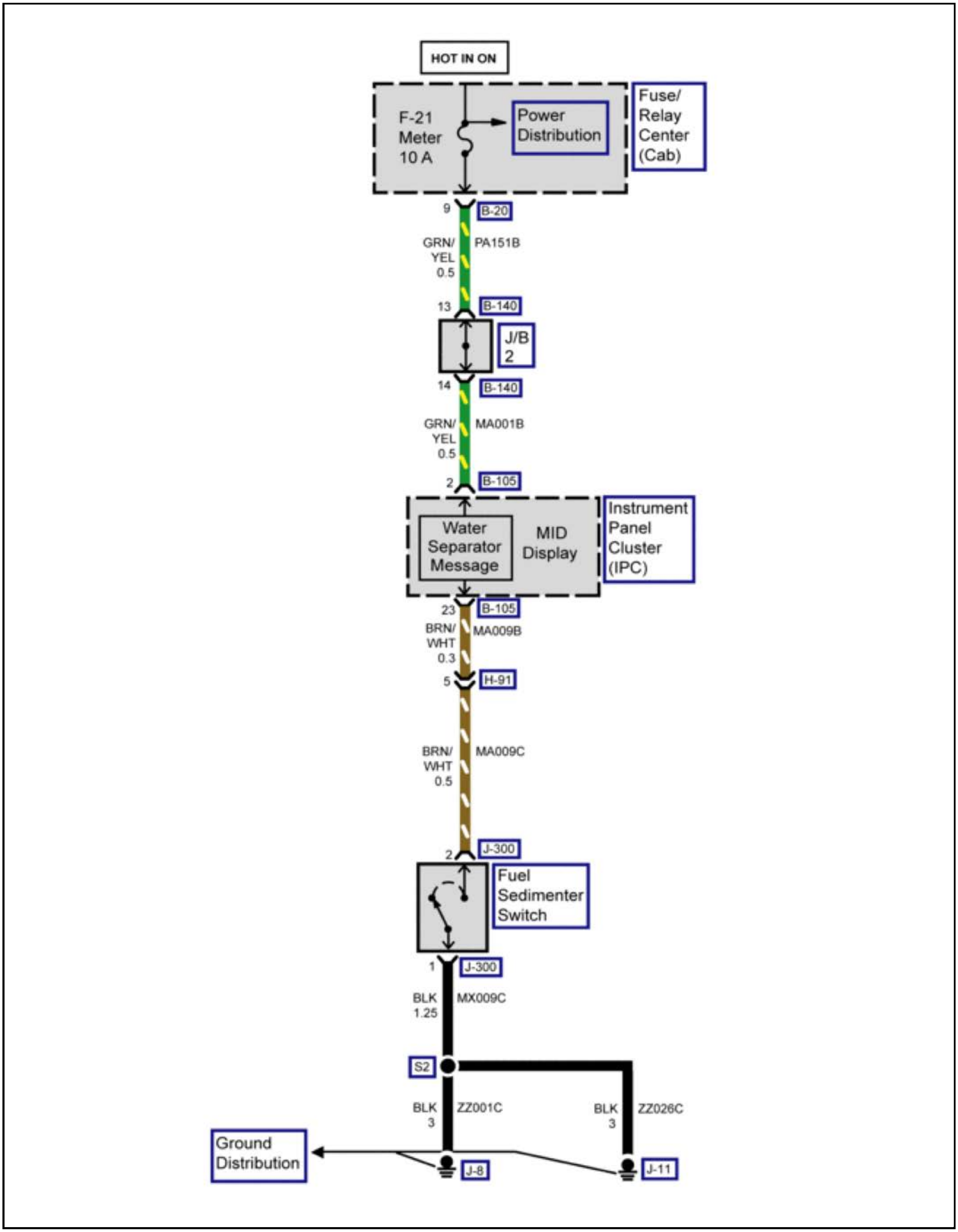
4892065

Instrument Cluster Schematics (DRL Indicator)


HOT IN ON
F-21
Meter
10 A
Power
Distribution
Fuse/
Relay
Center
(Cab)
9
B-20
GRN/
YEL
0.5
PA151B
13
B-140
J/B
2
14
B-140
GRN/
YEL
0.5
MA001B
2
B-105
ABS
Indicator
Instrument
Panel
Cluster
(IPC)
C.P.U.
CAN 1
Low
CAN 1
High
10
9
B-105
BLU
0.5
TF008B
BLU/
WHT
0.5
TF007B
Controller Area
Network
CAN 1
BLU
0.5
TF006B
BLU/
WHT
0.5
TF005B
7
8
B-439
CAN 1
Low
CAN 1
High
Electronic
Brake
Control
Module
(EBCM)

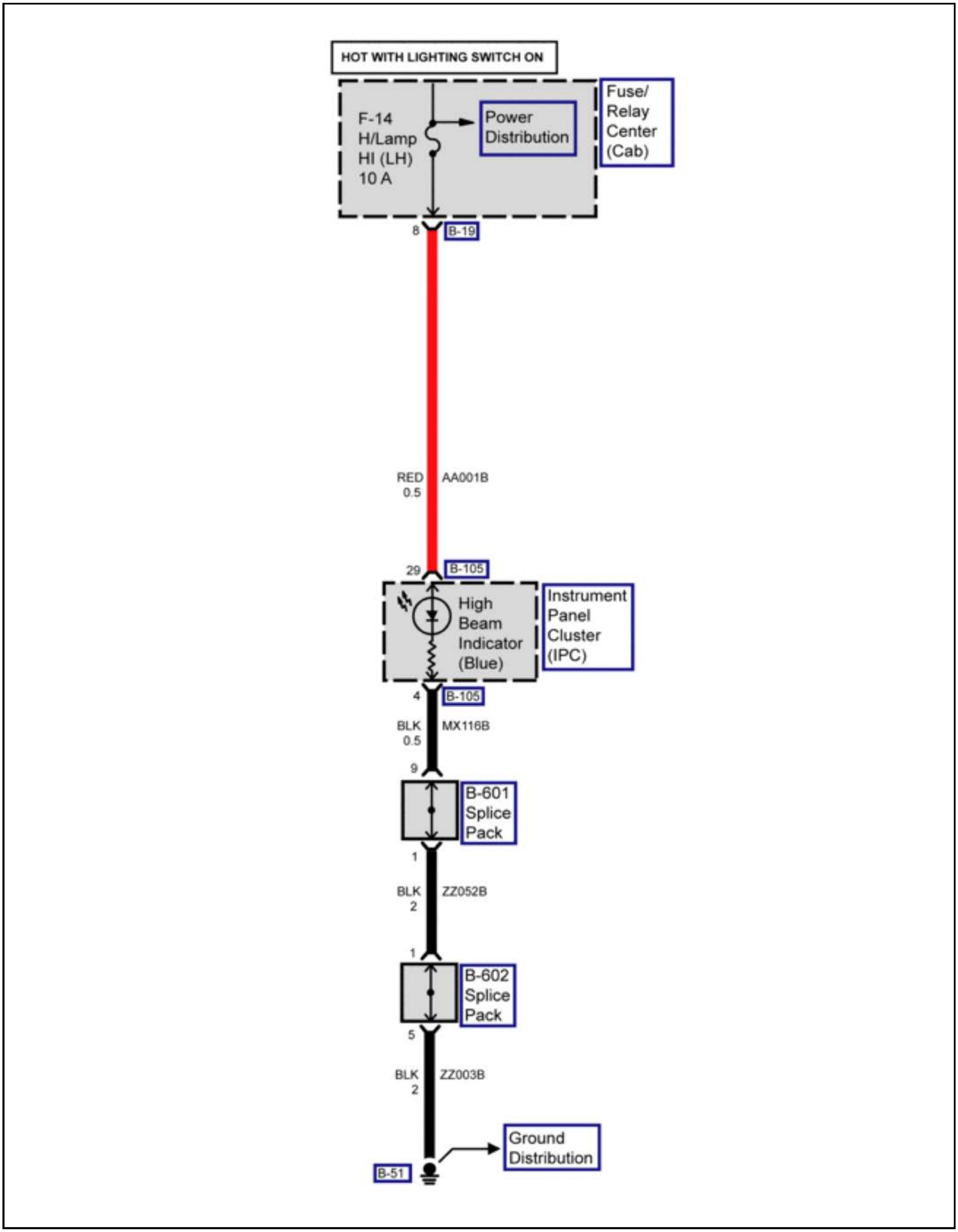
4892072

Instrument Cluster Schematics (Fuel Sedimenter Indicator)


HOT IN ON
F-21
Meter
10 A
Power
Distribution
Fuse/
Relay
Center
(Cab)
9
B-20
GRN/
YEL
0.5
PA151B
13
B-140
J/B
2
14
B-140
GRN/
YEL
0.5
MA001B
2
B-105
Water
Separator
Message
MID
Display
Instrument
Panel
Cluster
(IPC)
23
B-105
BRN/
WHT
0.3
MA009B
5
H-91
BRN/
WHT
0.5
MA009C
2
J-300
Fuel
Sedimenter
Switch
1
J-300
BLK
1.25
MX009C
S2
BLK
3
ZZ001C
BLK
3
ZZ026C
Ground
Distribution
J-8
J-11

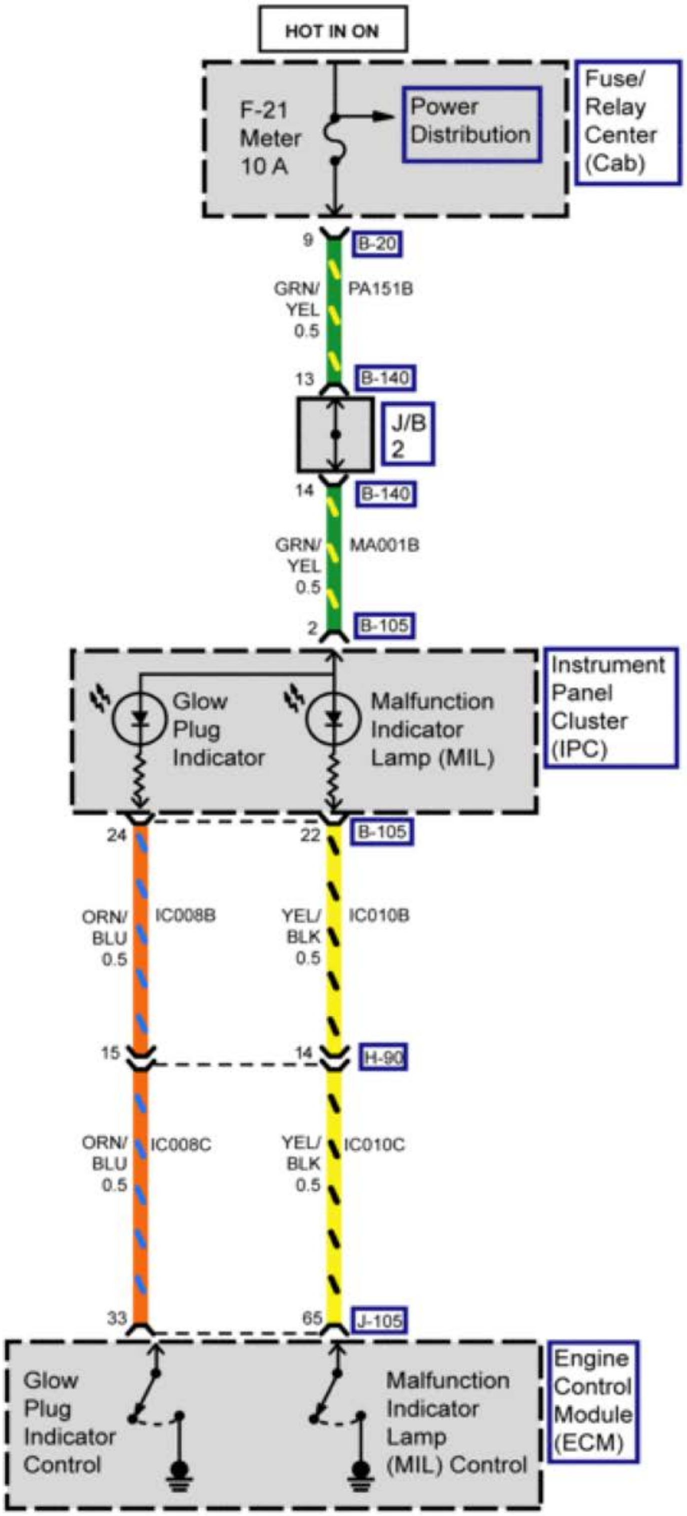
4892079

Instrument Cluster Schematics (High Beam Indicator)


HOT WITH LIGHTING SWITCH ON
F-14
H/Lamp
HI (LH)
10 A
Power Distribution
Fuse/ Relay Center (Cab)
8
B-19
RED
0.5
AA001B
29
B-105
High Beam Indicator (Blue)
Instrument Panel Cluster (IPC)
4
B-105
BLK
0.5
MX116B
9
B-601 Splice Pack
1
BLK
2
ZZ052B
1
B-602 Splice Pack
5
BLK
2
ZZ003B
B-51
Ground Distribution

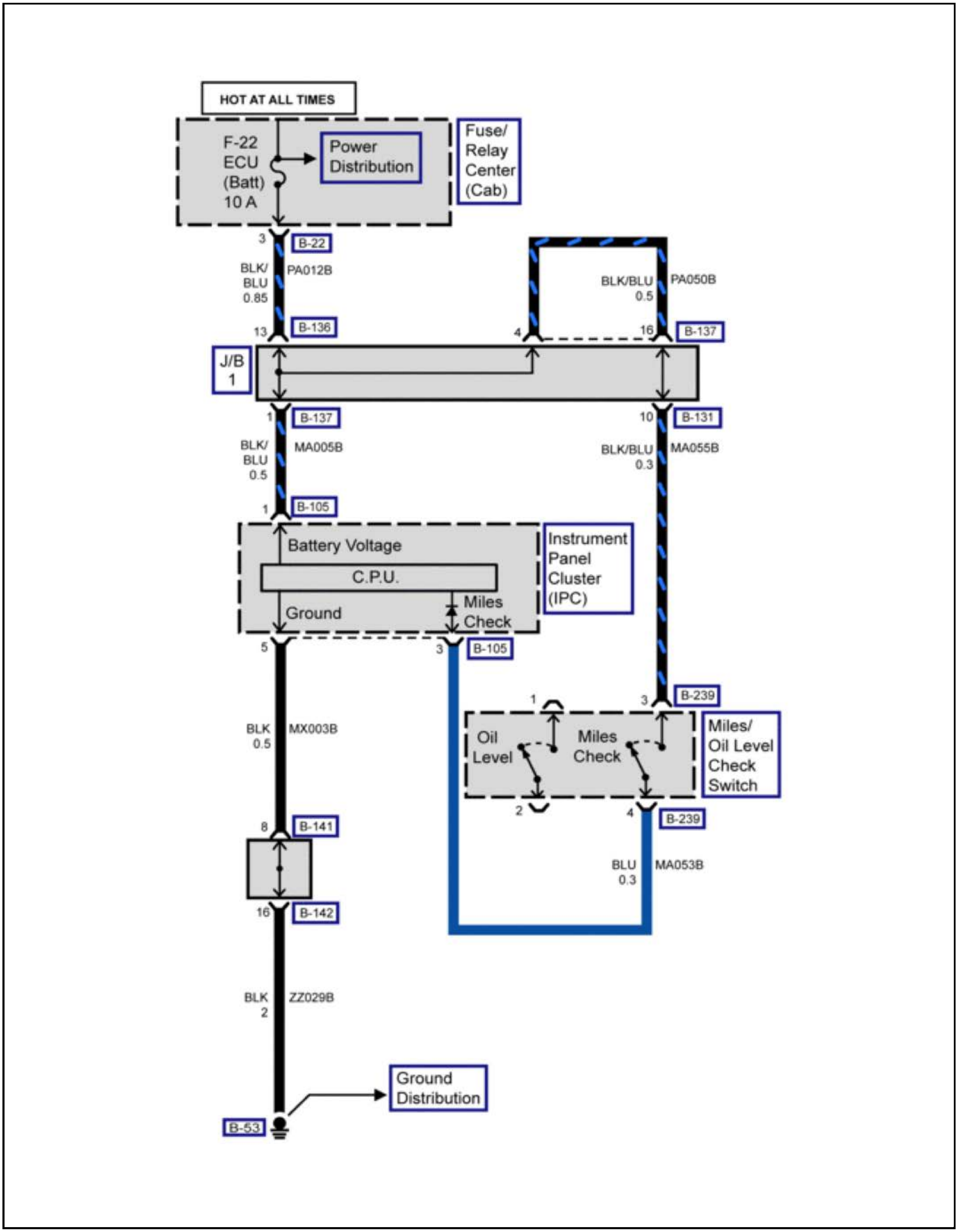
4892084

Instrument Cluster Schematics (Malfunction Indicator Lamp and Glow Plug)


HOT IN ON
F-21
Meter
10 A
Power Distribution
Fuse/ Relay Center (Cab)
9
B-20
GRN/ YEL 0.5
PA151B
13
B-140
J/B 2
14
B-140
GRN/ YEL 0.5
MA001B
2
B-105
Glow Plug Indicator
Malfunction Indicator Lamp (MIL)
Instrument Panel Cluster (IPC)
24
22
B-105
ORN/ BLU 0.5
IC008B
YEL/ BLK 0.5
IC010B
15
14
H-90
ORN/ BLU 0.5
IC008C
YEL/ BLK 0.5
IC010C
33
65
J-105
Glow Plug Indicator Control
Malfunction Indicator Lamp (MIL) Control
Engine Control Module (ECM)

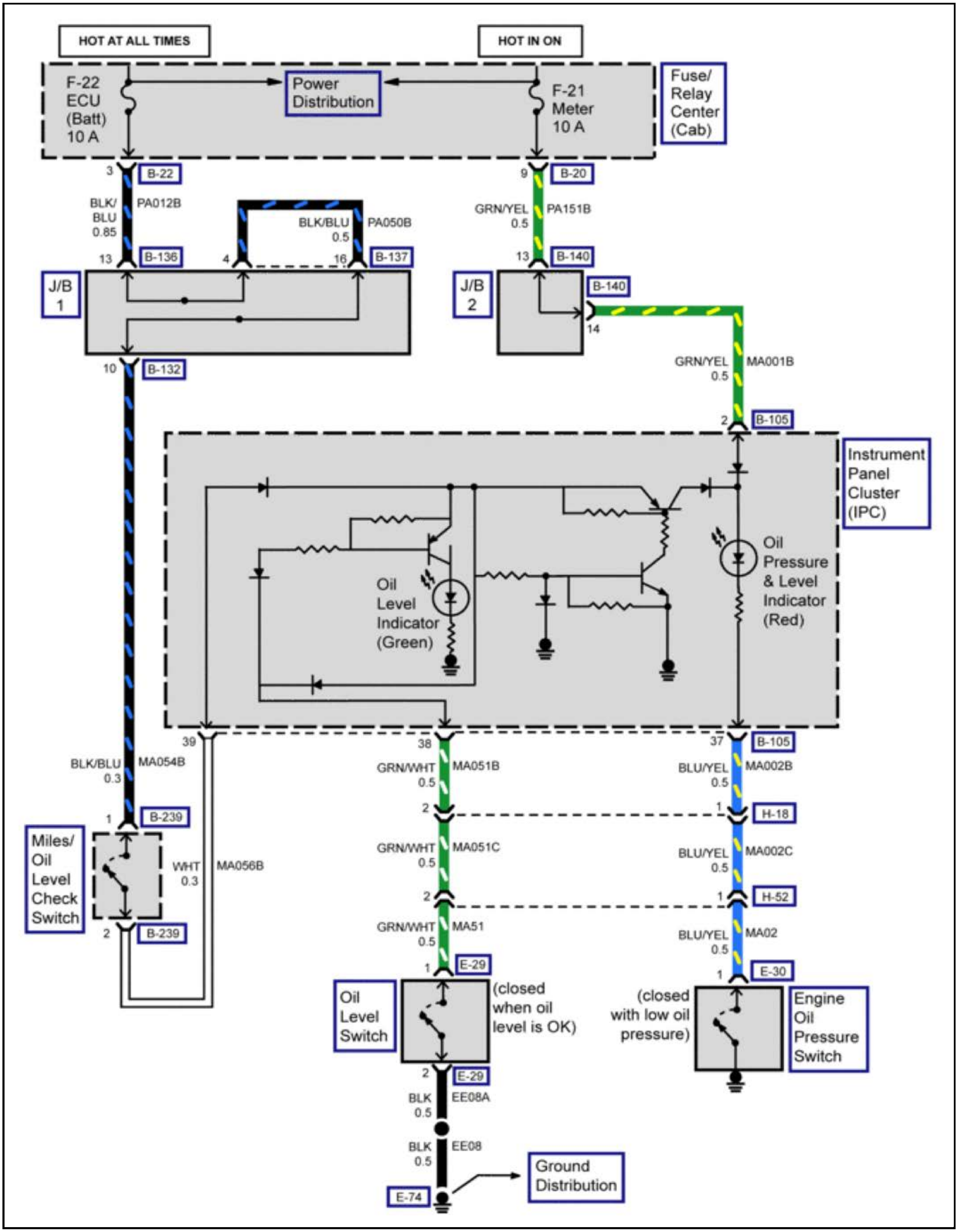
4892086

Instrument Cluster Schematics (Miles Check Switch)


HOT AT ALL TIMES
F-22
ECU
(Batt)
10 A
Power
Distribution
Fuse/
Relay
Center
(Cab)
3
B-22
BLK/
BLU
0.85
PA012B
13
B-136
BLK/BLU
0.5
PA050B
4
16
B-137
J/B
1
1
B-137
BLK/
BLU
0.5
MA005B
10
B-131
BLK/BLU
0.3
MA055B
1
B-105
Battery Voltage
C.P.U.
Ground
Miles
Check
Instrument
Panel
Cluster
(IPC)
5
3
B-105
BLK
0.5
MX003B
1
3
B-239
Oil
Level
Miles
Check
Miles/
Oil Level
Check
Switch
2
4
B-239
BLU
0.3
MA053B
8
B-141
16
B-142
BLK
2
ZZ029B
Ground
Distribution
B-53

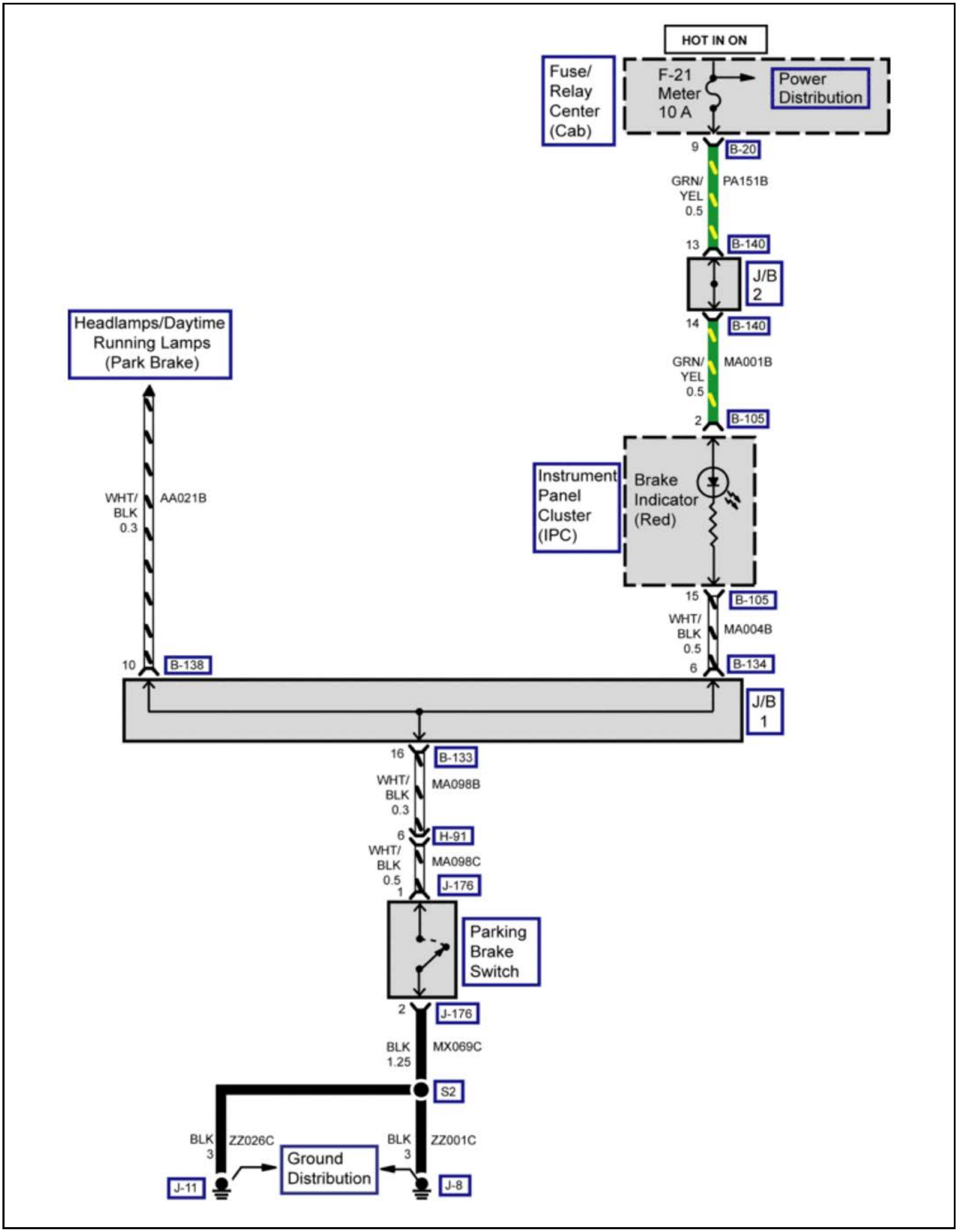
4892088

Instrument Cluster Schematics (Oil Level and Oil Pressure)


HOT AT ALL TIMES
HOT IN ON
F-22 ECU (Batt) 10 A
Power Distribution
F-21 Meter 10 A
Fuse/ Relay Center (Cab)
3
B-22
9
B-20
BLK/ BLU 0.85
PA012B
BLK/BLU 0.5
PA050B
GRN/YEL 0.5
PA151B
13
B-136
4
16
B-137
13
B-140
J/B 1
J/B 2
B-140
14
10
B-132
GRN/YEL 0.5
MA001B
2
B-105
Instrument Panel Cluster (IPC)
Oil Level Indicator (Green)
Oil Pressure & Level Indicator (Red)
39
38
37
B-105
BLK/BLU 0.3
MA054B
GRN/WHT 0.5
MA051B
BLU/YEL 0.5
MA002B
2
1
H-18
1
B-239
Miles/ Oil Level Check Switch
WHT 0.3
MA056B
GRN/WHT 0.5
MA051C
BLU/YEL 0.5
MA002C
2
1
H-52
2
B-239
GRN/WHT 0.5
MA51
BLU/YEL 0.5
MA02
1
E-29
1
E-30
Oil Level Switch
(closed when oil level is OK)
(closed with low oil pressure)
Engine Oil Pressure Switch
2
E-29
BLK 0.5
EE08A
BLK 0.5
EE08
E-74
Ground Distribution

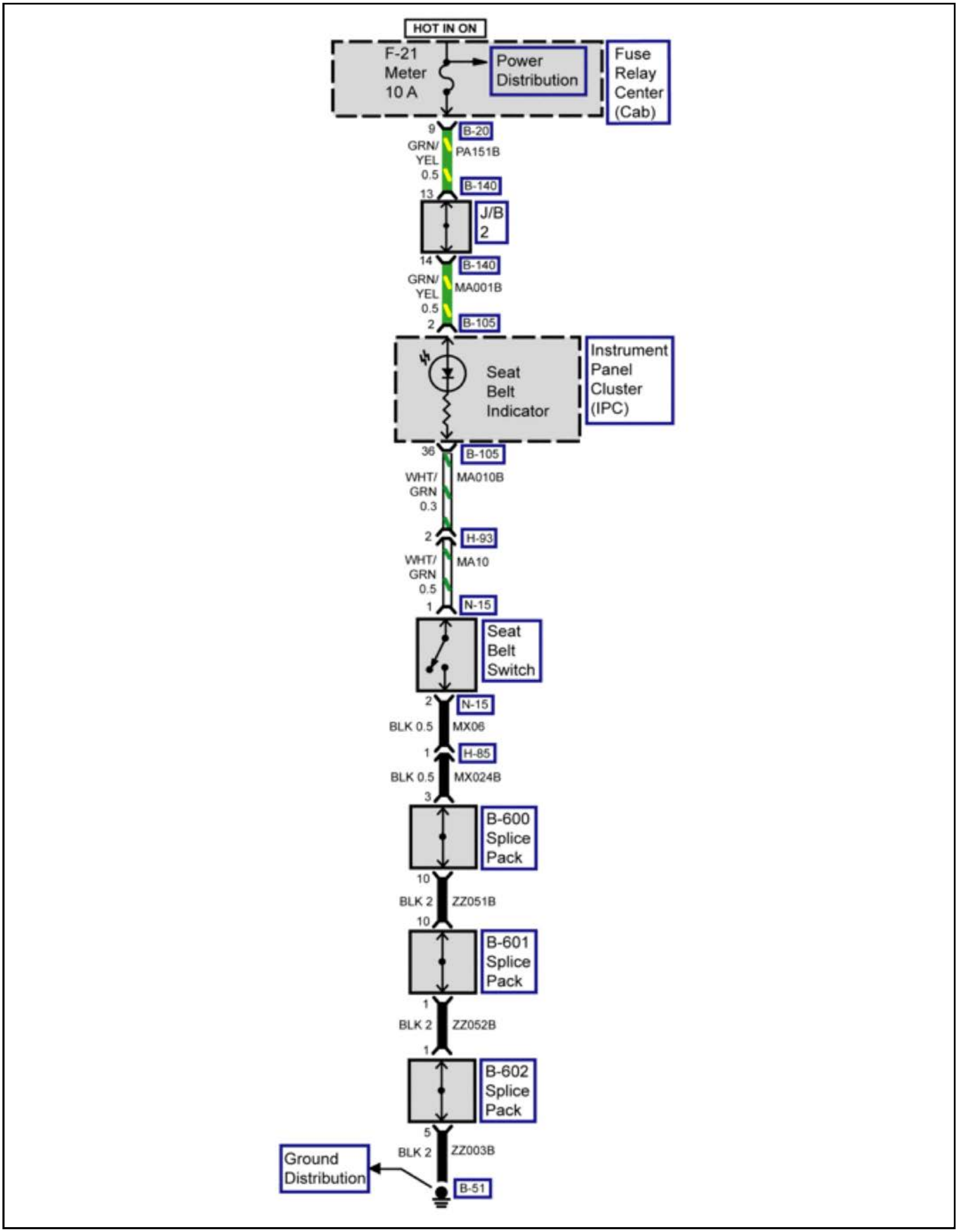
4892092

Instrument Cluster Schematics (Park Brake Indicator)


HOT IN ON
Fuse/ Relay Center (Cab)
F-21 Meter 10 A
Power Distribution
9
B-20
GRN/ YEL 0.5
PA151B
13
B-140
J/B 2
14
B-140
GRN/ YEL 0.5
MA001B
2
B-105
Instrument Panel Cluster (IPC)
Brake Indicator (Red)
15
B-105
WHT/ BLK 0.5
MA004B
6
B-134
Headlamps/Daytime Running Lamps (Park Brake)
WHT/ BLK 0.3
AA021B
10
B-138
J/B 1
16
B-133
WHT/ BLK 0.3
MA098B
6
H-91
WHT/ BLK 0.5
MA098C
1
J-176
Parking Brake Switch
2
J-176
BLK 1.25
MX069C
S2
BLK 3
ZZ026C
BLK 3
ZZ001C
Ground Distribution
J-11
J-8

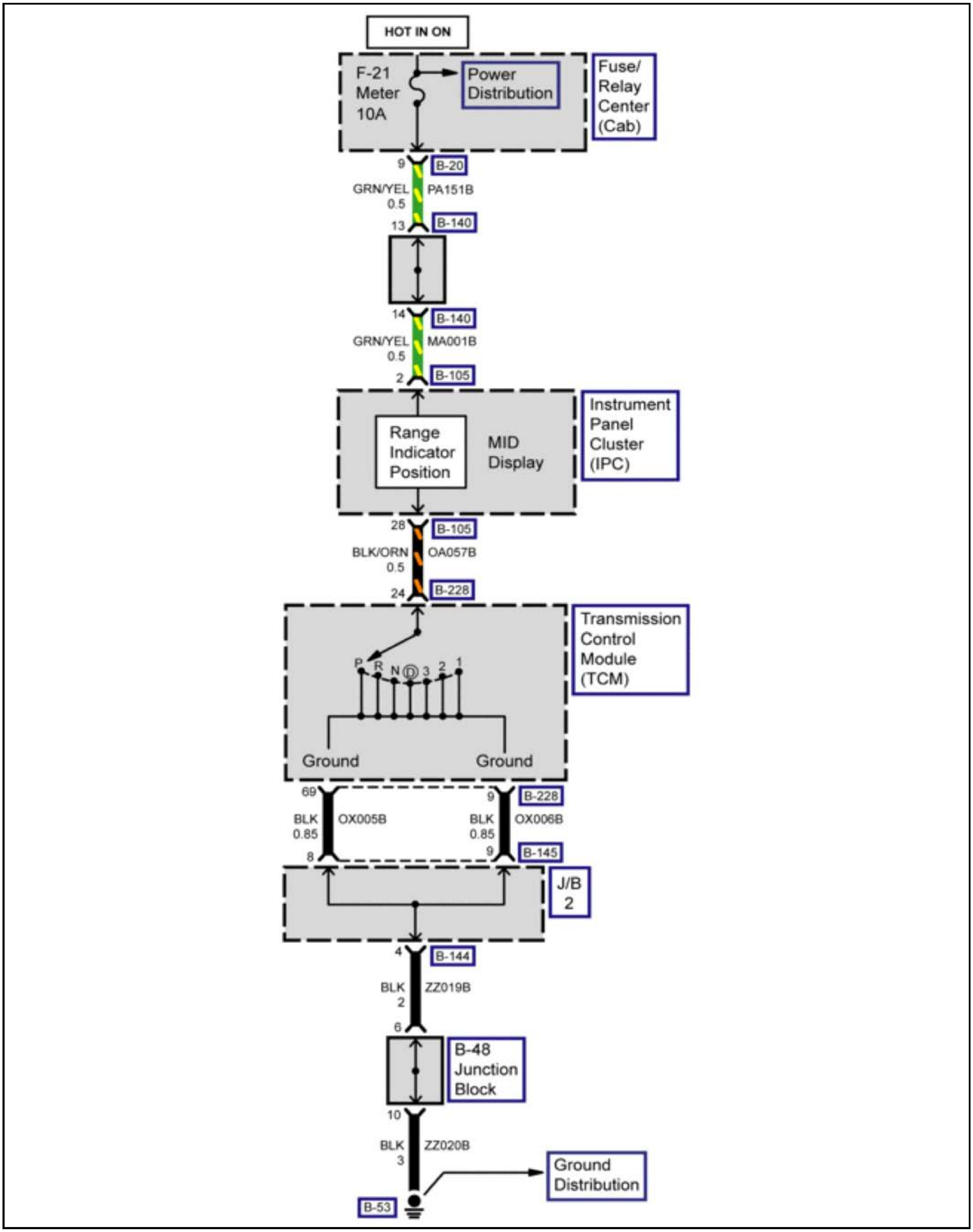
4892096

Instrument Cluster Schematics (Seat Belt Indicator)


HOT IN ON
F-21
Meter
10 A
Power Distribution
Fuse Relay Center (Cab)
9
B-20
GRN/ YEL 0.5
PA151B
B-140
13
J/B 2
14
B-140
GRN/ YEL 0.5
MA001B
2
B-105
Seat Belt Indicator
Instrument Panel Cluster (IPC)
36
B-105
WHT/ GRN 0.3
MA010B
2
H-93
WHT/ GRN 0.5
MA10
1
N-15
Seat Belt Switch
2
N-15
BLK 0.5
MX06
1
H-85
BLK 0.5
MX024B
3
B-600 Splice Pack
10
BLK 2
ZZ051B
10
B-601 Splice Pack
1
BLK 2
ZZ052B
1
B-602 Splice Pack
5
BLK 2
ZZ003B
Ground Distribution
B-51

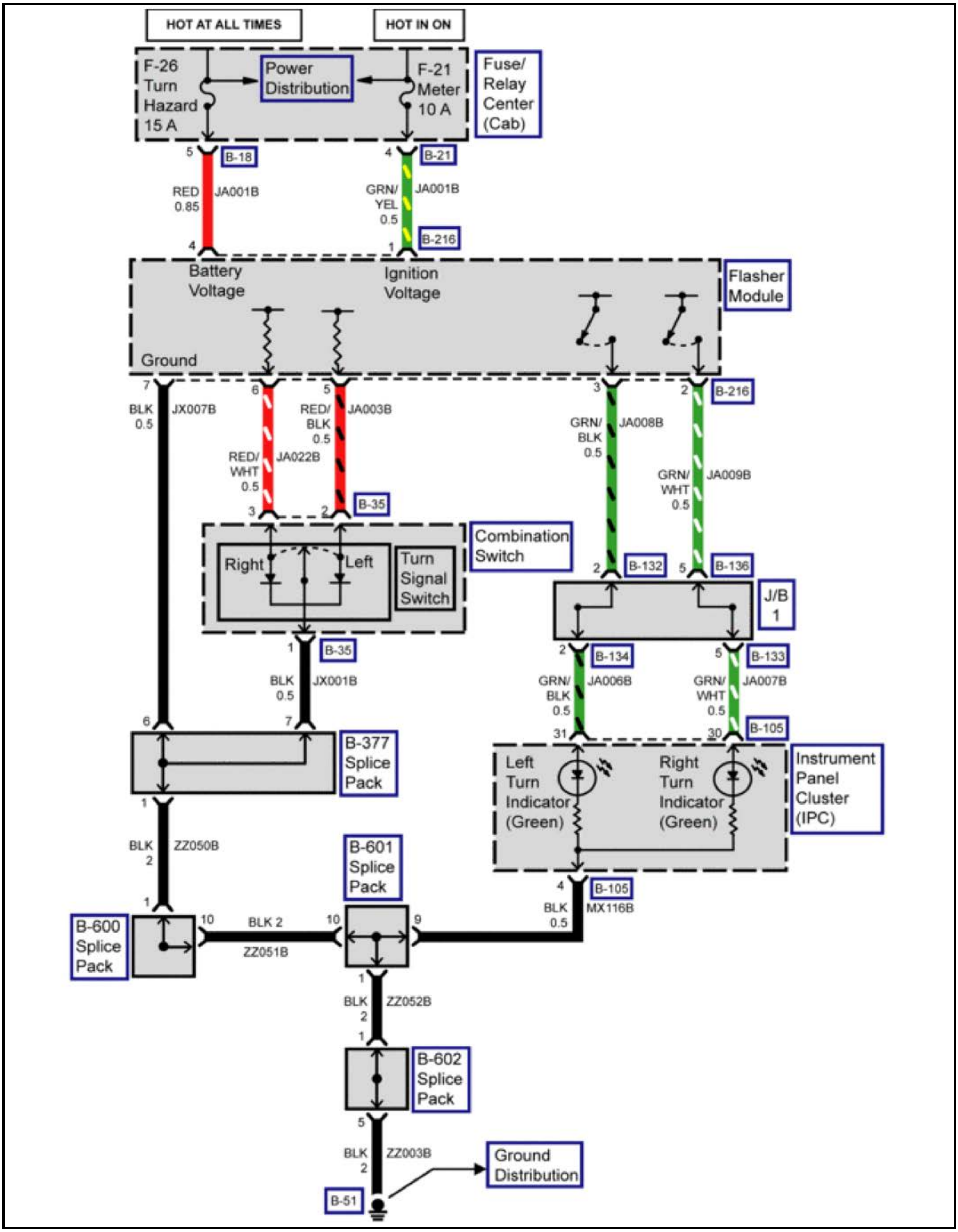
4892098

Instrument Cluster Schematics (Transmission Range Switch Indicator)


HOT IN ON
F-21
Meter
10A
Power Distribution
Fuse/ Relay Center (Cab)
9
B-20
GRN/YEL
0.5
PA151B
13
B-140
14
B-140
GRN/YEL
0.5
MA001B
2
B-105
Range Indicator Position
MID Display
Instrument Panel Cluster (IPC)
28
B-105
BLK/ORN
0.5
OA057B
24
B-228
Transmission Control Module (TCM)
P
R
N
D
3
2
1
Ground
Ground
69
BLK
0.85
OX005B
8
9
B-228
BLK
0.85
OX006B
9
B-145
J/B 2
4
B-144
BLK
2
ZZ019B
6
B-48 Junction Block
10
BLK
3
ZZ020B
Ground Distribution
B-53

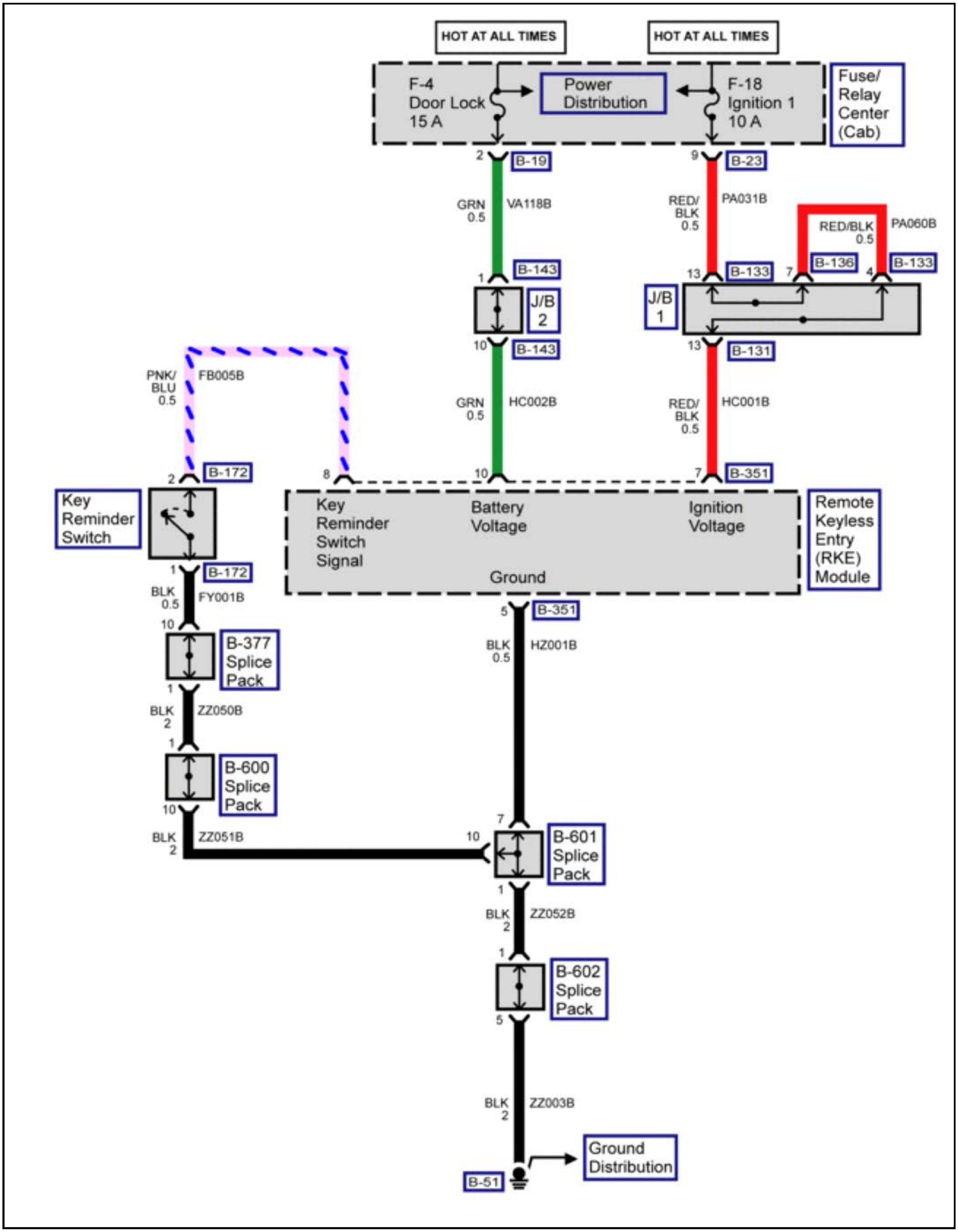
4892100

Instrument Cluster Schematics (Turn Signals)


HOT AT ALL TIMES
HOT IN ON
F-26
Turn
Hazard
15 A
Power
Distribution
F-21
Meter
10 A
Fuse/
Relay
Center
(Cab)
5
B-18
4
B-21
RED
0.85
JA001B
GRN/
YEL
0.5
JA001B
B-216
4
1
Battery
Voltage
Ignition
Voltage
Flasher
Module
Ground
7
6
5
3
2
B-216
BLK
0.5
JX007B
RED/
BLK
0.5
JA003B
RED/
WHT
0.5
JA022B
GRN/
BLK
0.5
JA008B
GRN/
WHT
0.5
JA009B
3
2
B-35
Combination
Switch
Right
Left
Turn
Signal
Switch
2
B-132
5
B-136
J/B
1
1
B-35
2
B-134
5
B-133
BLK
0.5
JX001B
GRN/
BLK
0.5
JA006B
GRN/
WHT
0.5
JA007B
31
30
B-105
6
7
B-377
Splice
Pack
Left
Turn
Indicator
(Green)
Right
Turn
Indicator
(Green)
Instrument
Panel
Cluster
(IPC)
1
BLK
2
ZZ050B
B-601
Splice
Pack
4
B-105
BLK
0.5
MX116B
1
B-600
Splice
Pack
10
BLK 2
ZZ051B
10
9
1
BLK
2
ZZ052B
1
B-602
Splice
Pack
5
BLK
2
ZZ003B
Ground
Distribution
B-51

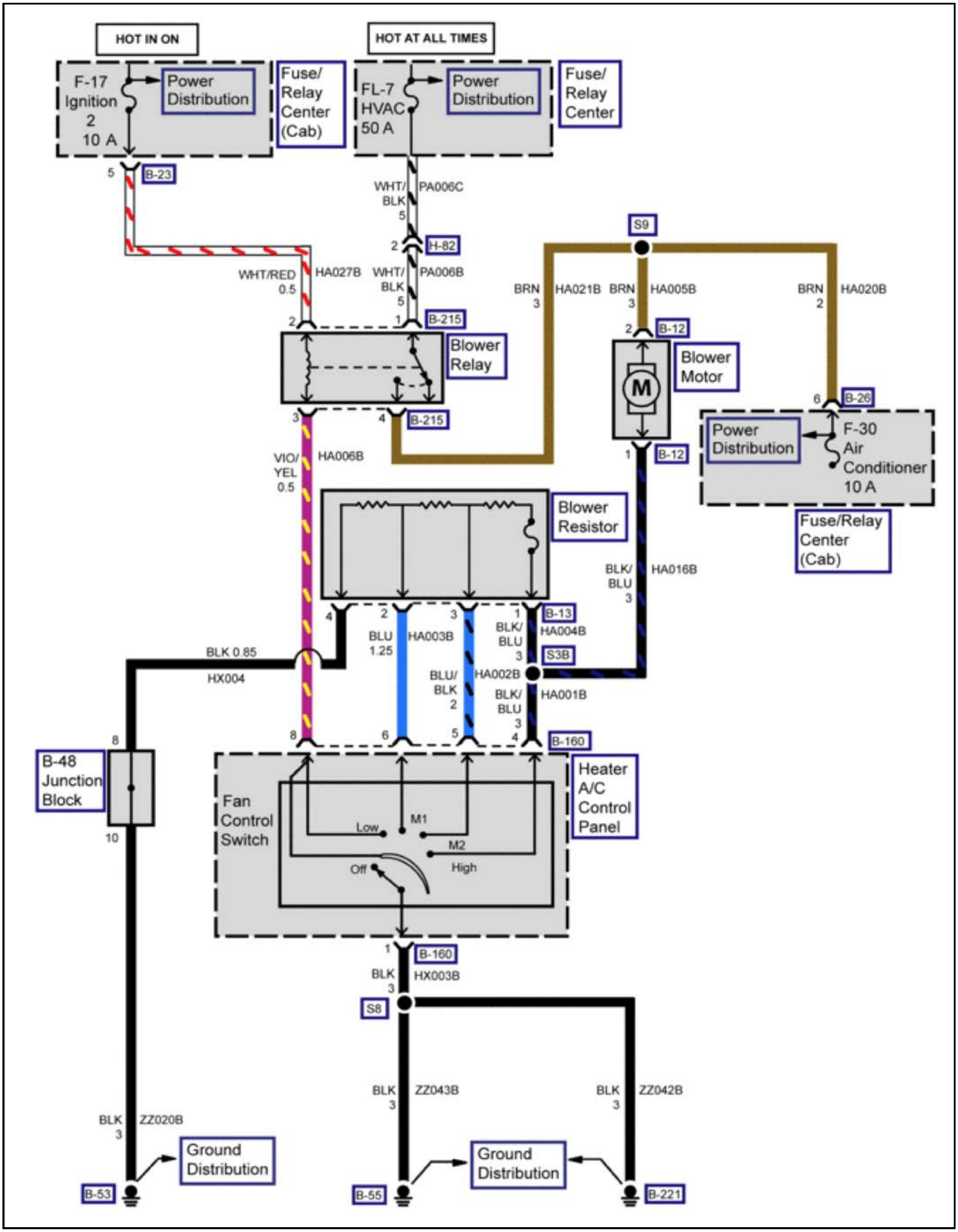
4892102

Keyless Entry Schematics (Module Power, Ground, and Key Switch)


HOT AT ALL TIMES
HOT AT ALL TIMES
F-4
Door Lock
15 A
Power
Distribution
F-18
Ignition 1
10 A
Fuse/
Relay
Center
(Cab)
2
B-19
9
B-23
GRN
0.5
VA118B
RED/
BLK
0.5
PA031B
RED/BLK
0.5
PA060B
1
B-143
J/B
2
13
B-133
7
B-136
4
B-133
J/B
1
10
B-143
13
B-131
PNK/
BLU
0.5
FB005B
GRN
0.5
HC002B
RED/
BLK
0.5
HC001B
2
B-172
8
10
7
B-351
Key
Reminder
Switch
Key
Reminder
Switch
Signal
Battery
Voltage
Ignition
Voltage
Ground
Remote
Keyless
Entry
(RKE)
Module
1
B-172
BLK
0.5
FY001B
5
B-351
BLK
0.5
HZ001B
10
B-377
Splice
Pack
1
BLK
2
ZZ050B
1
B-600
Splice
Pack
10
BLK
2
ZZ051B
7
10
B-601
Splice
Pack
1
BLK
2
ZZ052B
1
B-602
Splice
Pack
5
BLK
2
ZZ003B
B-51
Ground
Distribution

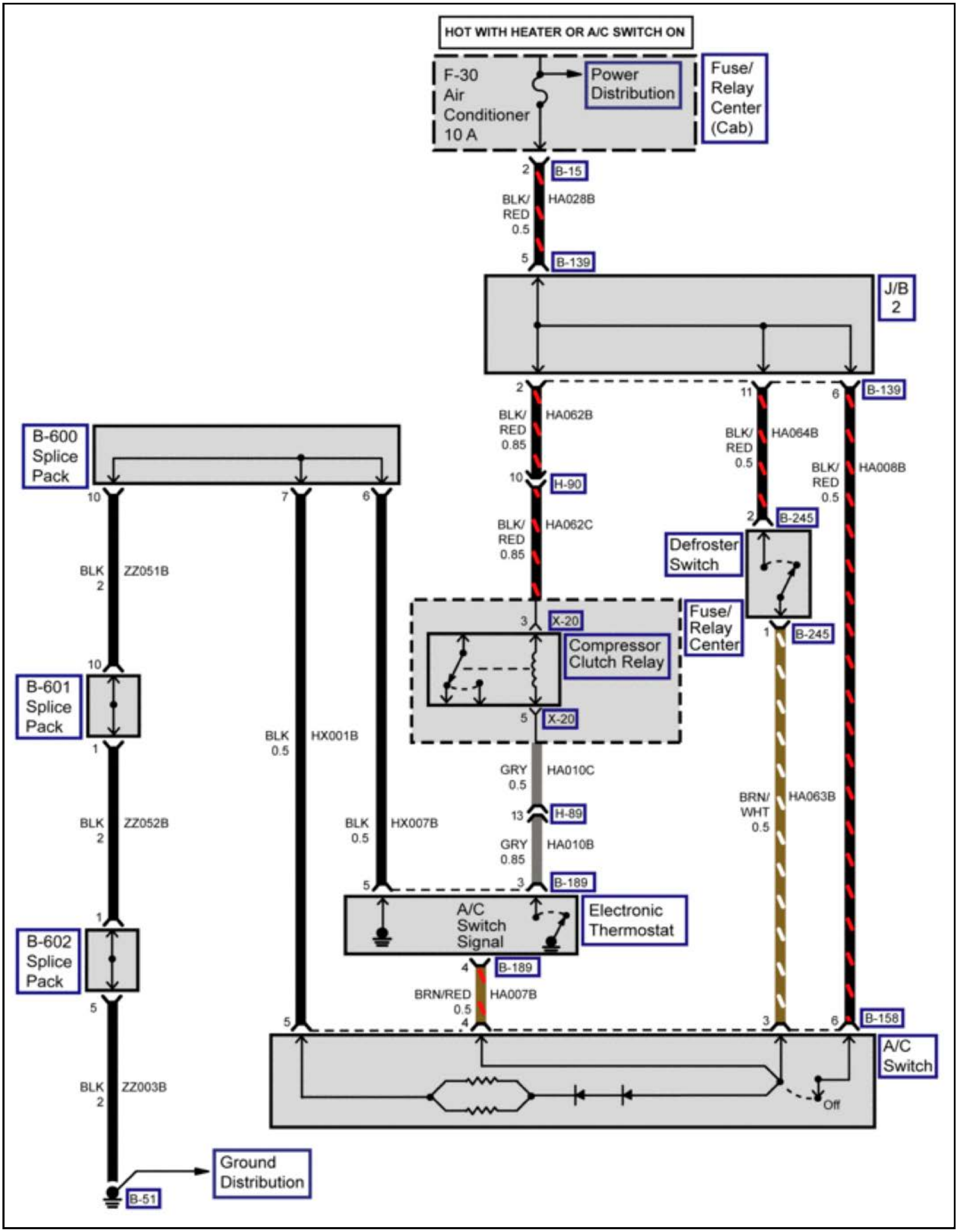
4892387

HVAC Schematics (Blower Motor Controls)


HOT IN ON
F-17 Ignition 2 10 A
Power Distribution
Fuse/ Relay Center (Cab)
HOT AT ALL TIMES
FL-7 HVAC 50 A
Power Distribution
Fuse/ Relay Center
5
B-23
WHT/ BLK 5
PA006C
2
H-82
S9
WHT/RED 0.5
HA027B
WHT/ BLK 5
PA006B
BRN 3
HA021B
BRN 3
HA005B
BRN 2
HA020B
2
1
B-215
2
B-12
Blower Relay
Blower Motor
M
6
B-26
3
4
B-215
Power Distribution
F-30 Air Conditioner 10 A
1
B-12
VIO/ YEL 0.5
HA006B
Fuse/Relay Center (Cab)
Blower Resistor
BLK/ BLU 3
HA016B
4
2
3
1
B-13
BLK/ BLU 3
HA004B
BLK 0.85
HX004
BLU 1.25
HA003B
S3B
BLU/ BLK 2
HA002B
BLK/ BLU 3
HA001B
8
8
6
5
4
B-160
B-48 Junction Block
10
Fan Control Switch
Low
M1
M2
Off
High
Heater A/C Control Panel
1
B-160
BLK 3
HX003B
S8
BLK 3
ZZ043B
BLK 3
ZZ042B
BLK 3
ZZ020B
Ground Distribution
Ground Distribution
B-53
B-55
B-221

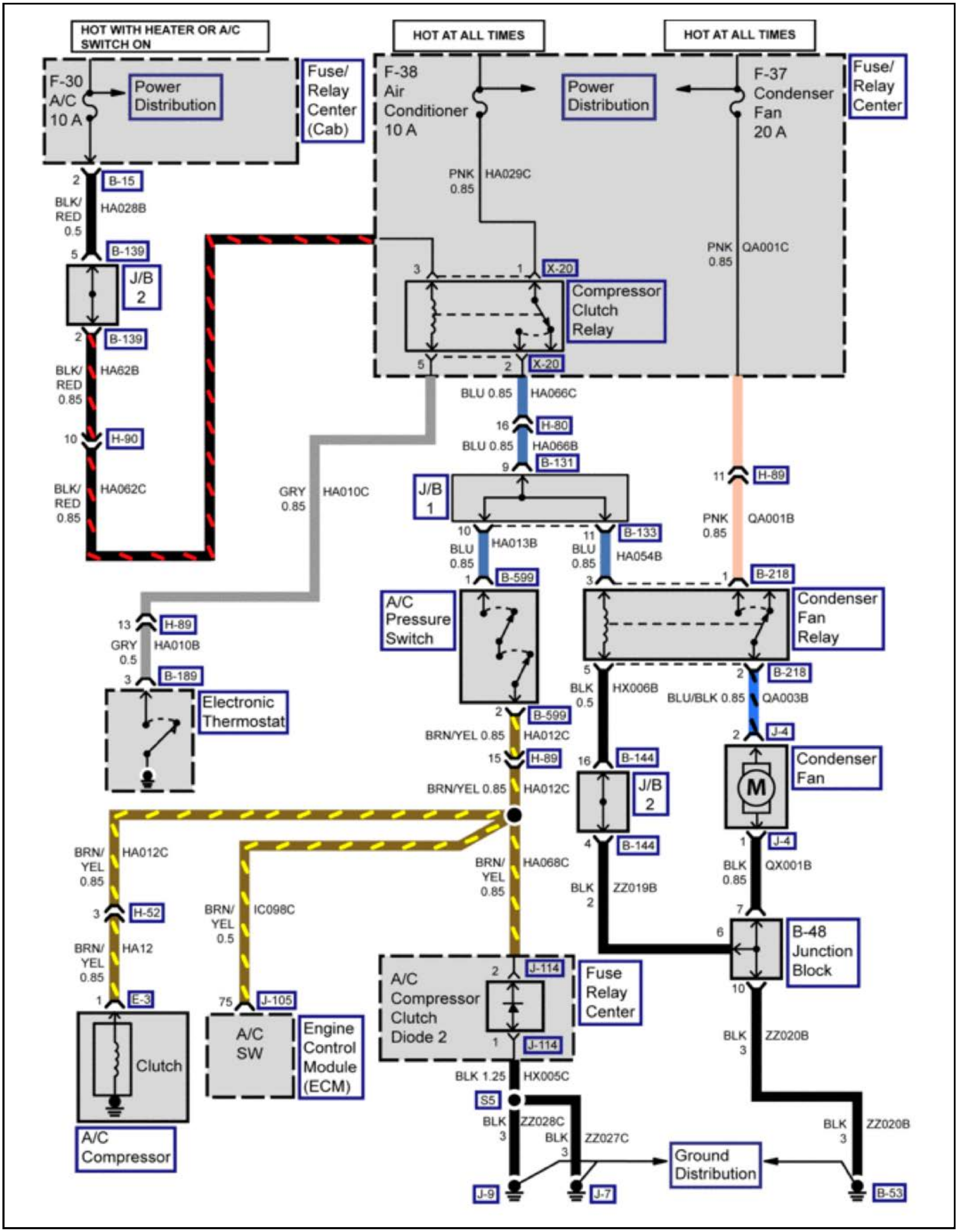
4893958

HVAC Schematics (A/C Switch Controls)


HOT WITH HEATER OR A/C SWITCH ON
F-30
Air
Conditioner
10 A
Power
Distribution
Fuse/
Relay
Center
(Cab)
2
B-15
BLK/
RED
0.5
HA028B
5
B-139
J/B
2
2
BLK/
RED
0.85
HA062B
10
H-90
BLK/
RED
0.85
HA062C
11
BLK/
RED
0.5
HA064B
6
B-139
BLK/
RED
0.5
HA008B
2
B-245
Defroster
Switch
1
B-245
B-600
Splice
Pack
10
7
6
BLK
2
ZZ051B
10
B-601
Splice
Pack
1
BLK
2
ZZ052B
1
B-602
Splice
Pack
5
BLK
2
ZZ003B
B-51
Ground
Distribution
BLK
0.5
HX001B
BLK
0.5
HX007B
3
X-20
Compressor
Clutch Relay
Fuse/
Relay
Center
5
X-20
GRY
0.5
HA010C
13
H-89
GRY
0.85
HA010B
BRN/
WHT
0.5
HA063B
5
3
B-189
A/C
Switch
Signal
Electronic
Thermostat
4
B-189
BRN/RED
0.5
HA007B
5
4
3
6
B-158
A/C
Switch
Off

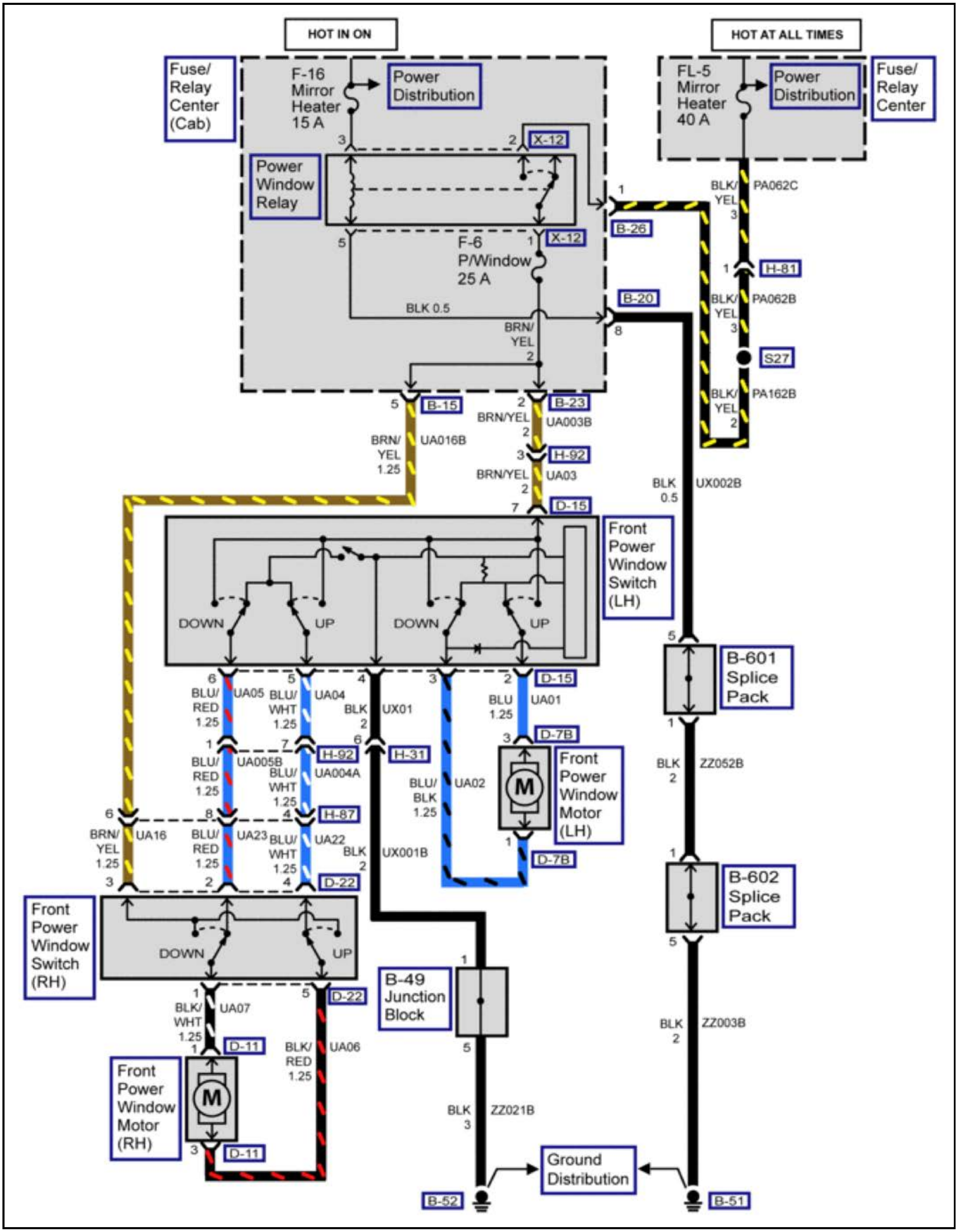
4893961

HVAC Schematics (A/C Compressor Controls)


HOT WITH HEATER OR A/C SWITCH ON
HOT AT ALL TIMES
HOT AT ALL TIMES
F-30 A/C 10 A
Power Distribution
Fuse/ Relay Center (Cab)
F-38 Air Conditioner 10 A
Power Distribution
F-37 Condenser Fan 20 A
Fuse/ Relay Center
2 B-15
BLK/ RED 0.5 HA028B
5 B-139
J/B 2
2 B-139
BLK/ RED 0.85 HA62B
10 H-90
BLK/ RED 0.85 HA062C
PNK 0.85 HA029C
PNK 0.85 QA001C
3 1 X-20
Compressor Clutch Relay
5 2 X-20
BLU 0.85 HA066C
16 H-80
BLU 0.85 HA066B
9 B-131
J/B 1
GRY 0.85 HA010C
11 H-89
PNK 0.85 QA001B
10 BLU 0.85 HA013B
11 BLU 0.85 B-133 HA054B
1 B-599
3
1 B-218
A/C Pressure Switch
Condenser Fan Relay
13 H-89
GRY 0.5 HA010B
3 B-189
Electronic Thermostat
2 B-599
BRN/YEL 0.85 HA012C
15 H-89
BRN/YEL 0.85 HA012C
5 BLK 0.5 HX006B
2 B-218
BLU/BLK 0.85 QA003B
2 J-4
16 B-144
J/B 2
4 B-144
Condenser Fan
M
1 J-4
BLK 0.85 QX001B
BRN/ YEL 0.85 HA012C
3 H-52
BRN/ YEL 0.85 HA12
BRN/ YEL 0.5 IC098C
BRN/ YEL 0.85 HA068C
BLK 2 ZZ019B
7
6
B-48 Junction Block
10
1 E-3
75 J-105
2 J-114
A/C Compressor Clutch Diode 2
Fuse Relay Center
1 J-114
BLK 3 ZZ020B
Clutch
A/C SW
Engine Control Module (ECM)
A/C Compressor
BLK 1.25 HX005C
S5
BLK 3 ZZ028C
BLK 3 ZZ027C
Ground Distribution
BLK 3 ZZ020B
J-9
J-7
B-53

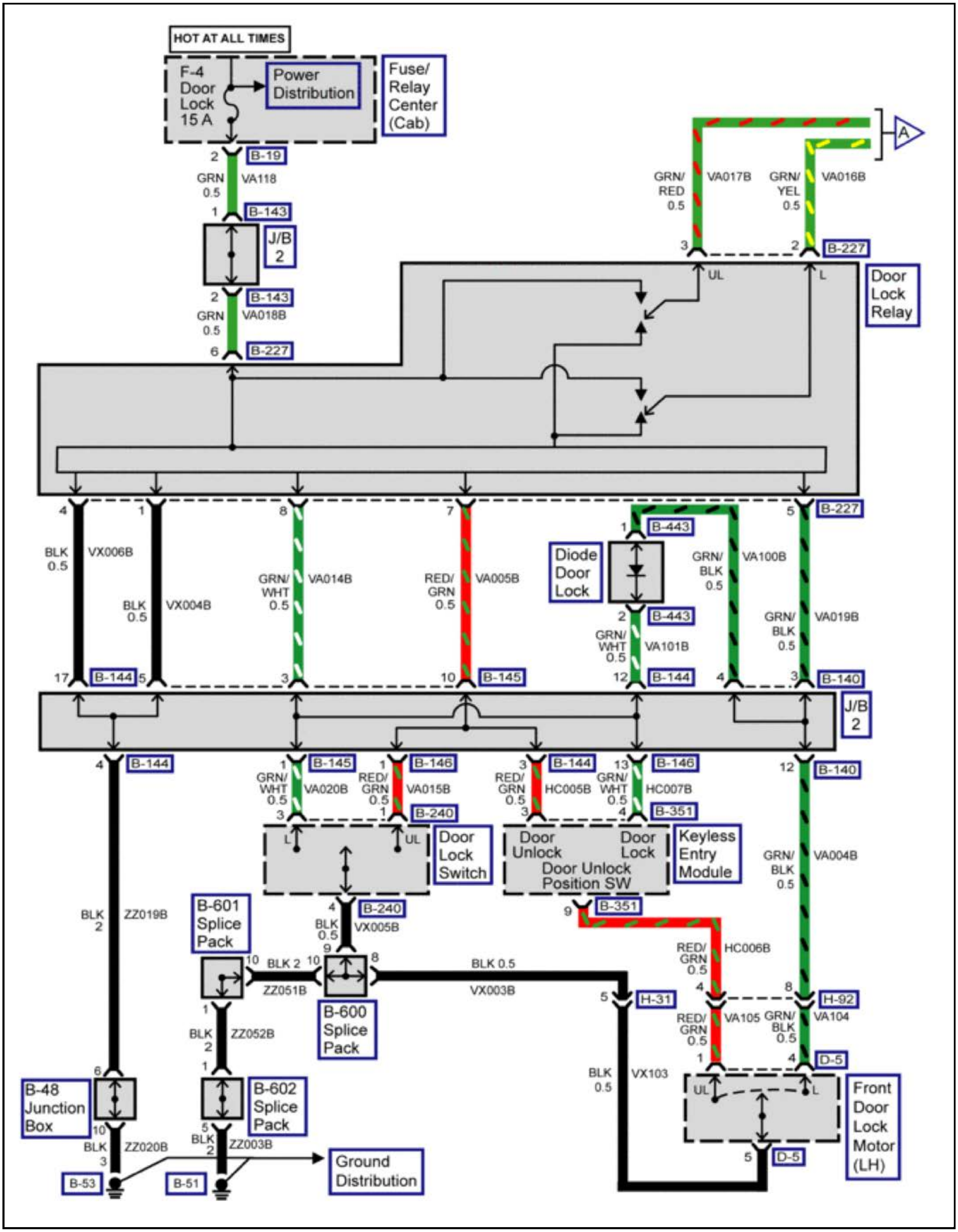
4893963

Power Window Schematics


HOT IN ON
HOT AT ALL TIMES
Fuse/ Relay Center (Cab)
F-16 Mirror Heater 15 A
Power Distribution
FL-5 Mirror Heater 40 A
Power Distribution
Fuse/ Relay Center
Power Window Relay
X-12
3
2
5
1
F-6 P/Window 25 A
X-12
BLK 0.5
BRN/ YEL 2
B-26
1
B-20
8
BLK/ YEL 3
PA062C
1
H-81
BLK/ YEL 3
PA062B
S27
BLK/ YEL 2
PA162B
5
B-15
2
B-23
BRN/YEL 2
UA003B
3
H-92
BRN/YEL 2
UA03
BRN/ YEL 1.25
UA016B
BLK 0.5
UX002B
7
D-15
Front Power Window Switch (LH)
DOWN
UP
DOWN
UP
6
5
4
3
2
D-15
BLU/ RED 1.25
UA05
BLU/ WHT 1.25
UA04
BLK 2
UX01
BLU 1.25
UA01
5
B-601 Splice Pack
1
3
D-7B
Front Power Window Motor (LH)
M
1
D-7B
BLU/ BLK 1.25
UA02
1
7
6
H-92
H-31
BLU/ RED 1.25
UA005B
BLU/ WHT 1.25
UA004A
BLK 2
ZZ052B
6
8
4
H-87
BRN/ YEL 1.25
UA16
BLU/ RED 1.25
UA23
BLU/ WHT 1.25
UA22
BLK 2
UX001B
3
2
4
D-22
1
B-602 Splice Pack
5
Front Power Window Switch (RH)
DOWN
UP
1
5
D-22
BLK/ WHT 1.25
UA07
1
D-11
BLK/ RED 1.25
UA06
Front Power Window Motor (RH)
M
3
D-11
1
B-49 Junction Block
5
BLK 3
ZZ021B
BLK 2
ZZ003B
Ground Distribution
B-52
B-51

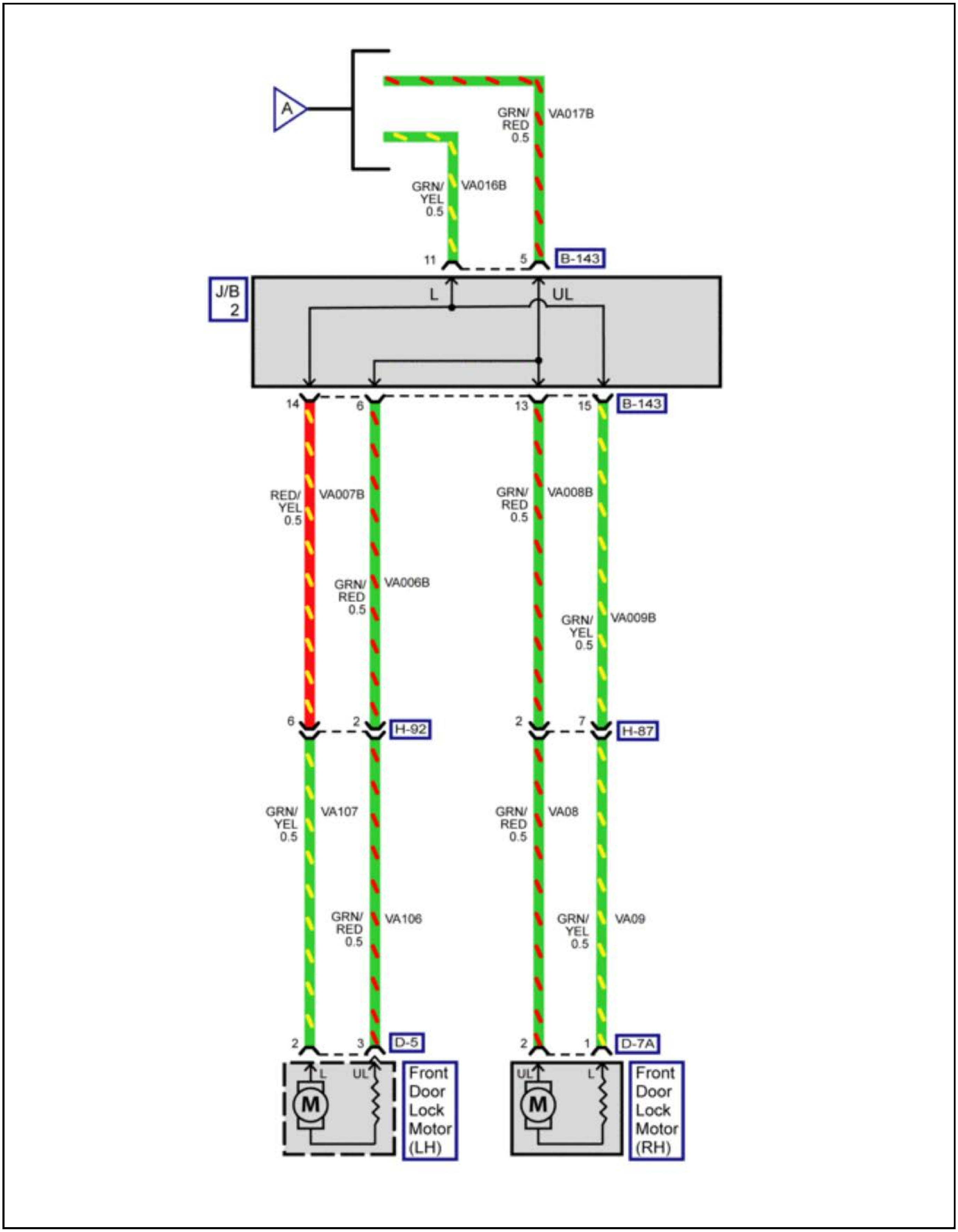
4891923

Power Door Lock Schematics (Door Lock Controls)


HOT AT ALL TIMES
F-4 Door Lock 15 A
Power Distribution
Fuse/ Relay Center (Cab)
B-19
GRN 0.5
VA118
B-143
J/B 2
GRN 0.5
VA018B
B-227
GRN/ RED 0.5
VA017B
GRN/ YEL 0.5
VA016B
A
UL
L
Door Lock Relay
BLK 0.5
VX006B
BLK 0.5
VX004B
GRN/ WHT 0.5
VA014B
RED/ GRN 0.5
VA005B
B-443
Diode Door Lock
GRN/ BLK 0.5
VA100B
GRN/ WHT 0.5
VA101B
GRN/ BLK 0.5
VA019B
B-144
B-145
B-140
J/B 2
B-146
GRN/ WHT 0.5
VA020B
RED/ GRN 0.5
VA015B
RED/ GRN 0.5
HC005B
GRN/ WHT 0.5
HC007B
B-240
B-351
Door Lock Switch
Door Unlock
Door Lock
Door Unlock Position SW
Keyless Entry Module
GRN/ BLK 0.5
VA004B
BLK 2
ZZ019B
B-601 Splice Pack
BLK 0.5
VX005B
BLK 2
ZZ051B
BLK 0.5
VX003B
B-600 Splice Pack
RED/ GRN 0.5
HC006B
H-31
H-92
RED/ GRN 0.5
VA105
GRN/ BLK 0.5
VA104
BLK 2
ZZ052B
BLK 0.5
VX103
D-5
B-48 Junction Box
B-602 Splice Pack
Front Door Lock Motor (LH)
BLK 3
ZZ020B
BLK 2
ZZ003B
Ground Distribution
B-53
B-51

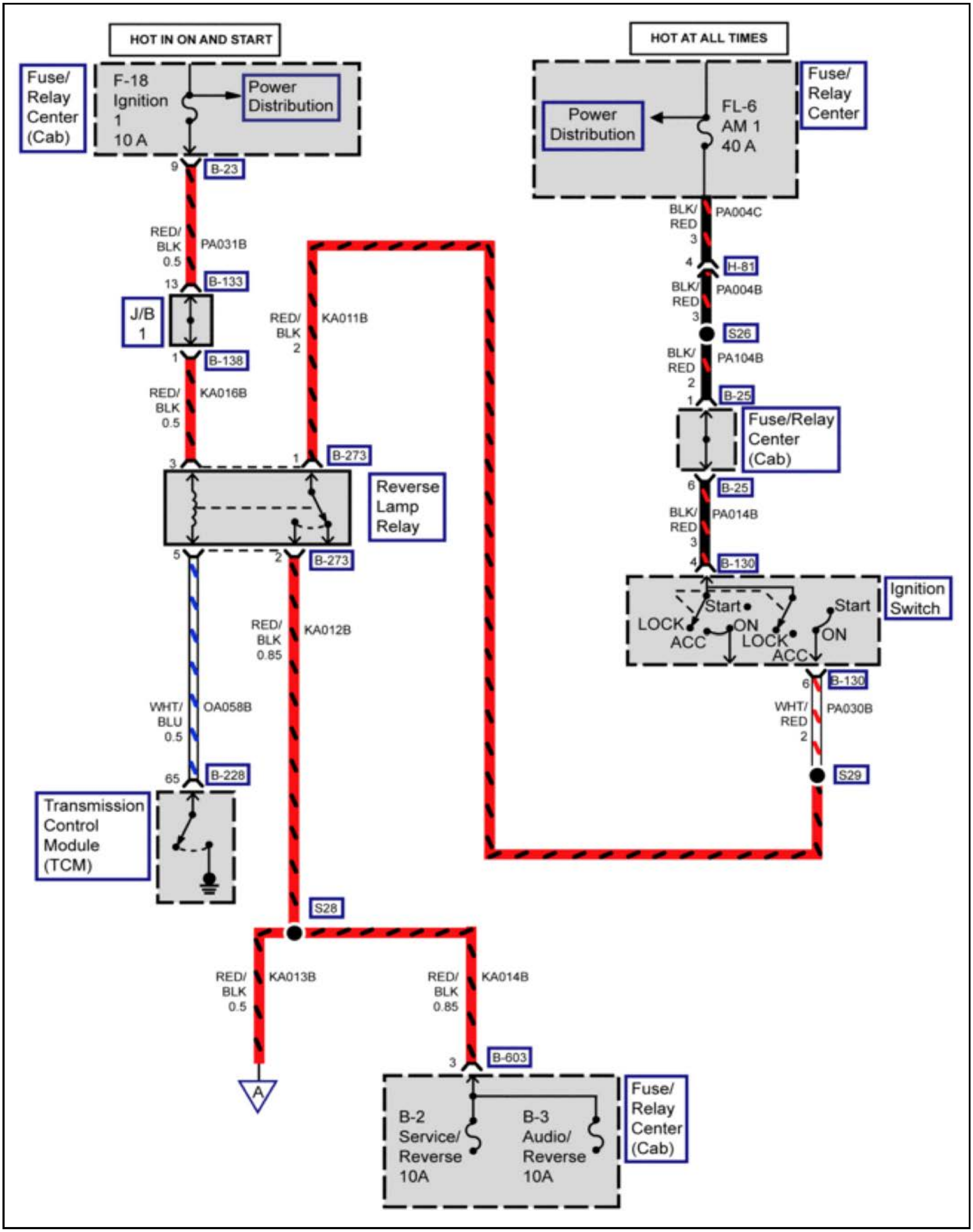
4891892

Power Door Lock Schematics (Door Lock Motors)


A
GRN/ RED 0.5
VA017B
GRN/ YEL 0.5
VA016B
11
5
B-143
J/B 2
L
UL
14
6
13
15
B-143
RED/ YEL 0.5
VA007B
GRN/ RED 0.5
VA006B
GRN/ RED 0.5
VA008B
GRN/ YEL 0.5
VA009B
6
2
H-92
2
7
H-87
GRN/ YEL 0.5
VA107
GRN/ RED 0.5
VA106
GRN/ RED 0.5
VA08
GRN/ YEL 0.5
VA09
2
3
D-5
2
1
D-7A
L
UL
M
Front Door Lock Motor (LH)
UL
L
M
Front Door Lock Motor (RH)

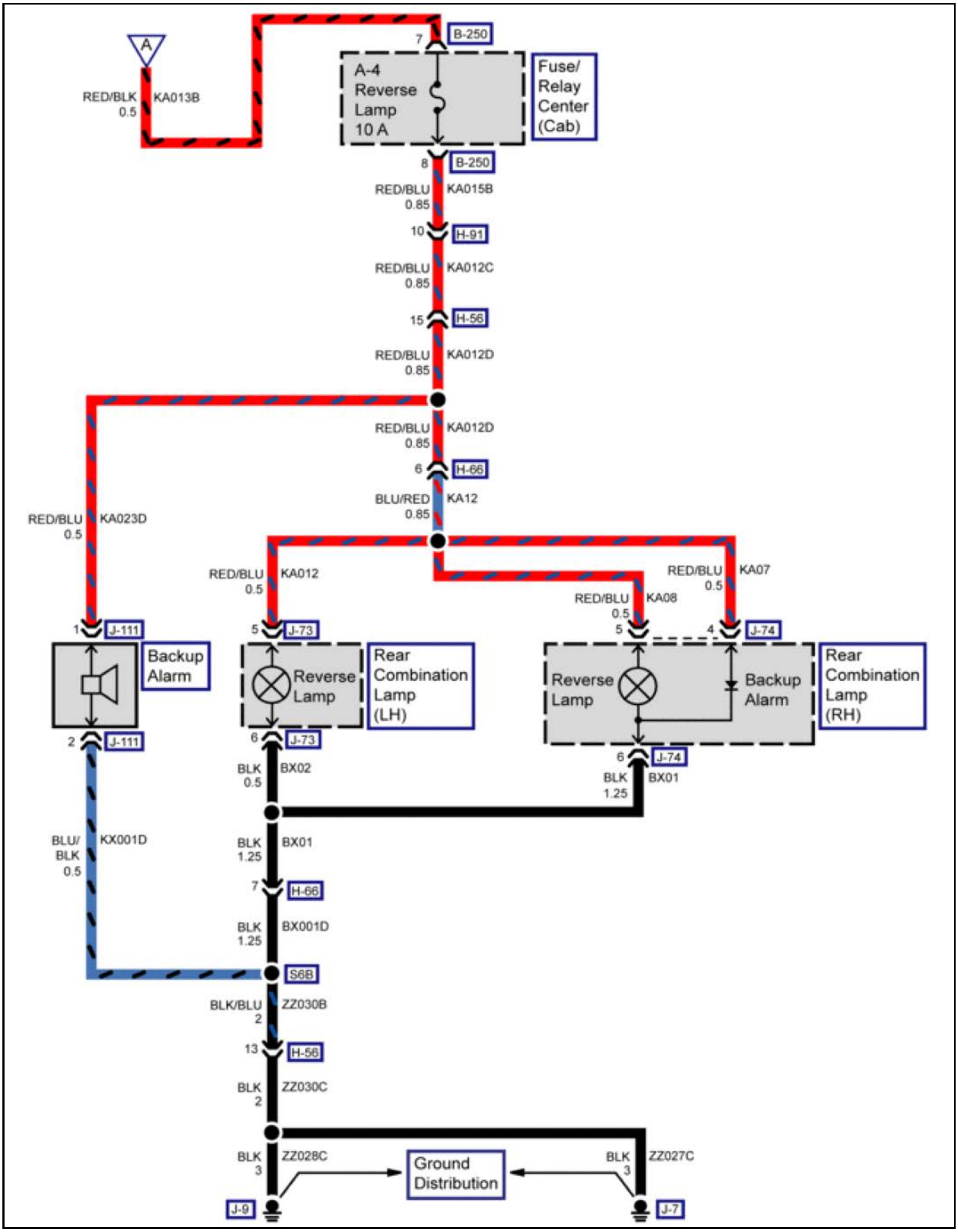
4891897

Backup Alarm System Schematics (Reverse Lamps/Backup Alarm Controls)


HOT IN ON AND START
Fuse/ Relay Center (Cab)
F-18 Ignition 1 10 A
Power Distribution
9
B-23
RED/ BLK 0.5
PA031B
13
B-133
J/B 1
1
B-138
RED/ BLK 0.5
KA016B
RED/ BLK 2
KA011B
3
1
B-273
Reverse Lamp Relay
5
2
B-273
RED/ BLK 0.85
KA012B
WHT/ BLU 0.5
OA058B
65
B-228
Transmission Control Module (TCM)
S28
RED/ BLK 0.5
KA013B
A
RED/ BLK 0.85
KA014B
3
B-603
B-2 Service/ Reverse 10A
B-3 Audio/ Reverse 10A
Fuse/ Relay Center (Cab)
HOT AT ALL TIMES
Power Distribution
FL-6 AM 1 40 A
Fuse/ Relay Center
BLK/ RED 3
PA004C
4
H-81
BLK/ RED 3
PA004B
S26
BLK/ RED 2
PA104B
1
B-25
Fuse/Relay Center (Cab)
6
B-25
BLK/ RED 3
PA014B
4
B-130
Start
LOCK
ON
ACC
LOCK
ACC
Start
ON
Ignition Switch
6
B-130
WHT/ RED 2
PA030B
S29

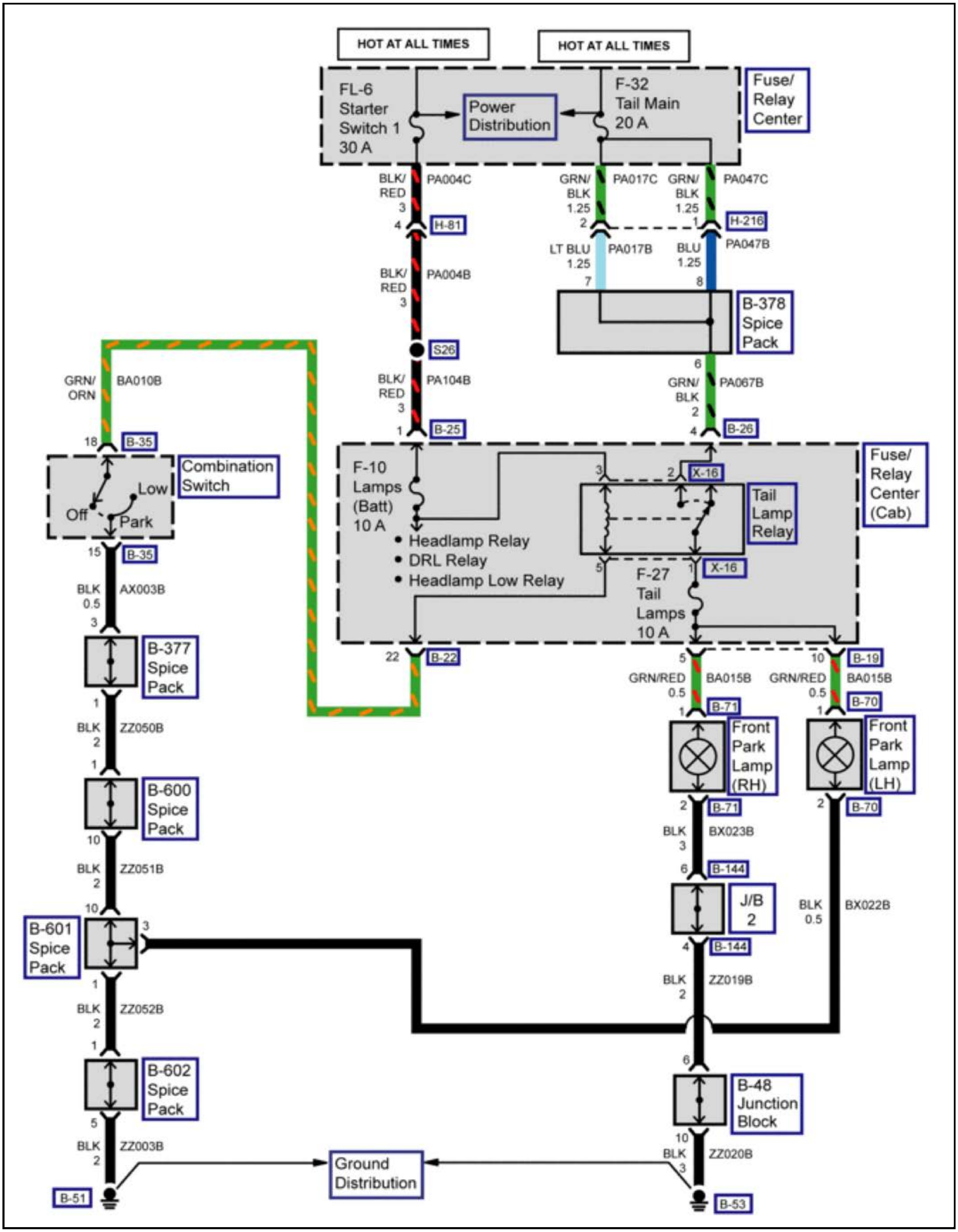
4892240

Backup Alarm System Schematics (Lamps/Alarm)


A
RED/BLK 0.5
KA013B
7
B-250
A-4 Reverse Lamp 10 A
Fuse/ Relay Center (Cab)
8
B-250
RED/BLU 0.85
KA015B
10
H-91
RED/BLU 0.85
KA012C
15
H-56
RED/BLU 0.85
KA012D
RED/BLU 0.85
KA012D
6
H-66
BLU/RED 0.85
KA12
RED/BLU 0.5
KA023D
RED/BLU 0.5
KA012
RED/BLU 0.5
KA07
RED/BLU 0.5
KA08
1
J-111
5
J-73
5
4
J-74
Backup Alarm
Reverse Lamp
Rear Combination Lamp (LH)
Reverse Lamp
Backup Alarm
Rear Combination Lamp (RH)
2
J-111
6
J-73
6
J-74
BLK 0.5
BX02
BLK 1.25
BX01
BLU/ BLK 0.5
KX001D
BLK 1.25
BX01
7
H-66
BLK 1.25
BX001D
S6B
BLK/BLU 2
ZZ030B
13
H-56
BLK 2
ZZ030C
BLK 3
ZZ028C
Ground Distribution
BLK 3
ZZ027C
J-9
J-7

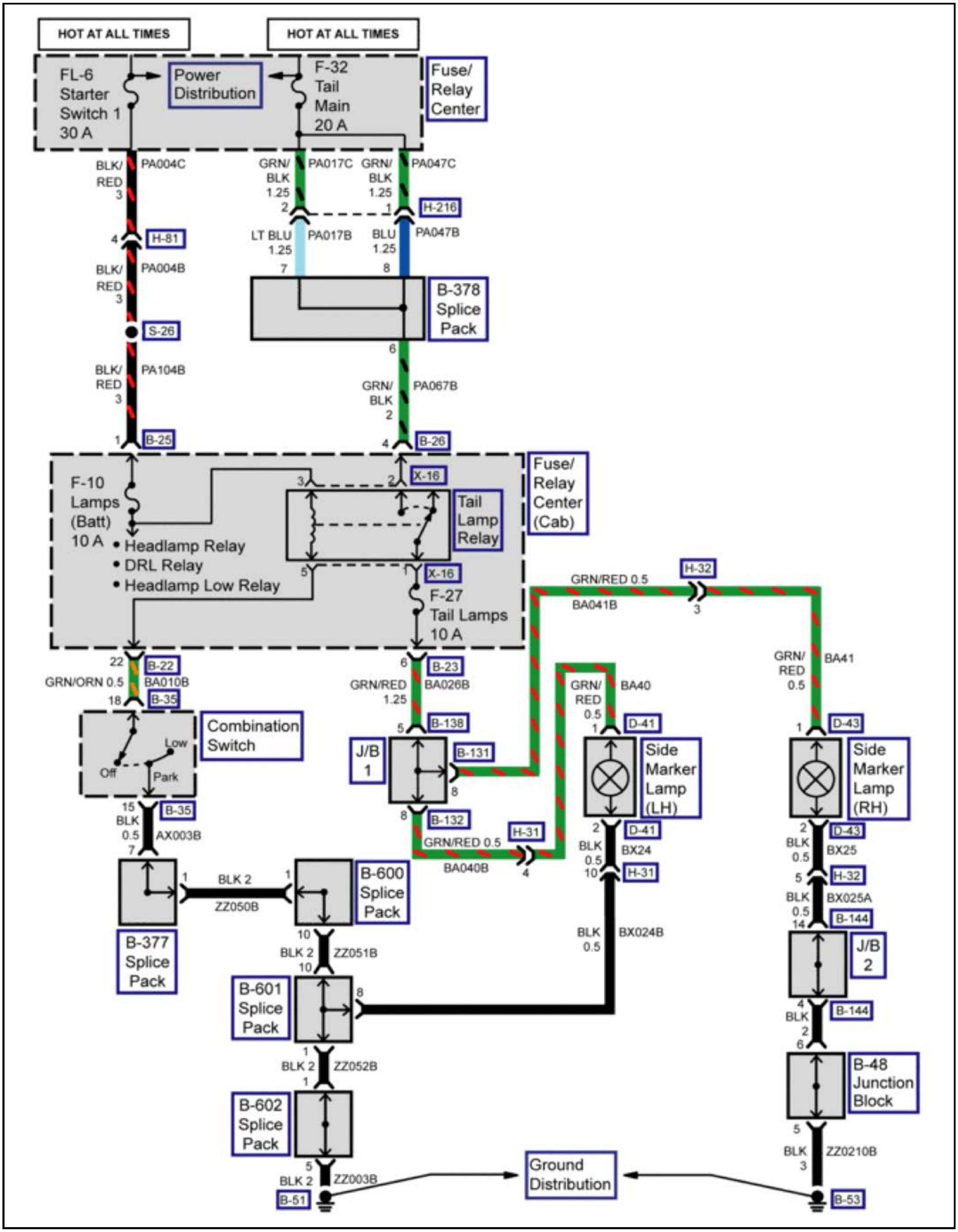
4892254

Backup Alarm System Schematics (Park Lamps – Front)


HOT AT ALL TIMES
HOT AT ALL TIMES
FL-6 Starter Switch 1 30 A
Power Distribution
F-32 Tail Main 20 A
Fuse/ Relay Center
BLK/ RED 3
PA004C
4
H-81
BLK/ RED 3
PA004B
S26
BLK/ RED 3
PA104B
1
B-25
GRN/ BLK 1.25
2
PA017C
GRN/ BLK 1.25
1
PA047C
H-216
LT BLU 1.25
7
PA017B
BLU 1.25
8
PA047B
B-378 Spice Pack
6
GRN/ BLK 2
PA067B
4
B-26
GRN/ ORN
BA010B
18
B-35
Combination Switch
Low
Off
Park
15
B-35
BLK 0.5
AX003B
3
B-377 Spice Pack
1
BLK 2
ZZ050B
1
B-600 Spice Pack
10
BLK 2
ZZ051B
10
B-601 Spice Pack
3
1
BLK 2
ZZ052B
1
B-602 Spice Pack
5
BLK 2
ZZ003B
B-51
Ground Distribution
F-10 Lamps (Batt) 10 A
• Headlamp Relay
• DRL Relay
• Headlamp Low Relay
3
2
X-16
Tail Lamp Relay
5
1
X-16
F-27 Tail Lamps 10 A
Fuse/ Relay Center (Cab)
22
B-22
5
GRN/RED 0.5
BA015B
1
B-71
10
B-19
GRN/RED 0.5
BA015B
1
B-70
Front Park Lamp (RH)
Front Park Lamp (LH)
2
B-71
BLK 3
BX023B
6
B-144
J/B 2
4
B-144
BLK 2
ZZ019B
2
B-70
BLK 0.5
BX022B
6
B-48 Junction Block
10
BLK 3
ZZ020B
B-53

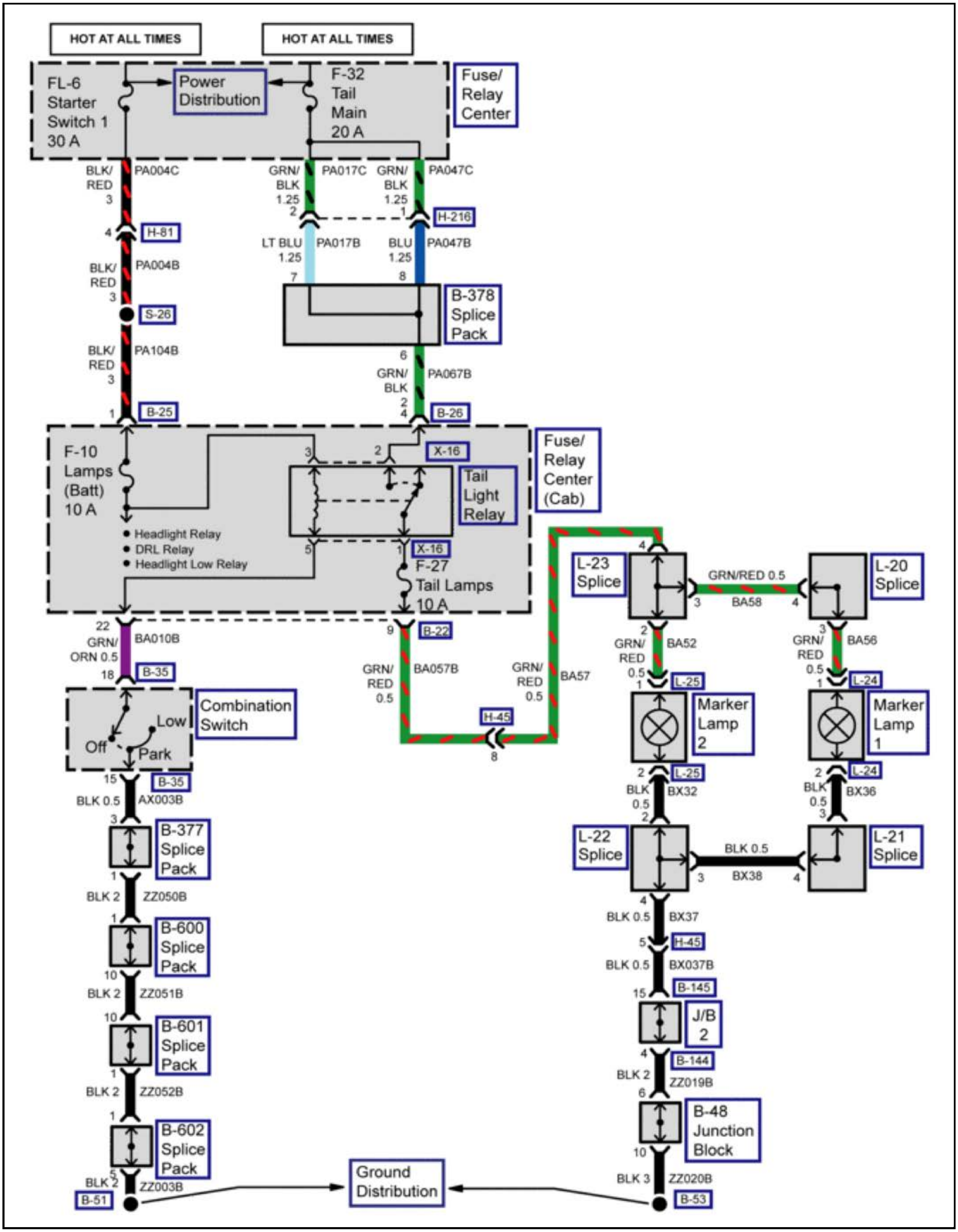
4892258

Backup Alarm System Schematics (Side Marker Lamps)


HOT AT ALL TIMES
HOT AT ALL TIMES
FL-6 Starter Switch 1 30 A
Power Distribution
F-32 Tail Main 20 A
Fuse/ Relay Center
BLK/ RED 3
PA004C
GRN/ BLK 1.25
PA017C
GRN/ BLK 1.25
PA047C
2
1
H-216
4
H-81
LT BLU 1.25
PA017B
BLU 1.25
PA047B
BLK/ RED 3
PA004B
7
8
B-378 Splice Pack
S-26
6
BLK/ RED 3
PA104B
GRN/ BLK 2
PA067B
1
B-25
4
B-26
F-10 Lamps (Batt) 10 A
• Headlamp Relay
• DRL Relay
• Headlamp Low Relay
3
2
X-16
Tail Lamp Relay
Fuse/ Relay Center (Cab)
5
1
X-16
F-27 Tail Lamps 10 A
GRN/RED 0.5
H-32
BA041B
3
22
B-22
GRN/ORN 0.5
BA010B
18
B-35
6
B-23
GRN/RED 1.25
BA026B
GRN/ RED 0.5
BA40
GRN/ RED 0.5
BA41
Combination Switch
Low
Off
Park
5
B-138
J/B 1
B-131
8
1
D-41
1
D-43
Side Marker Lamp (LH)
Side Marker Lamp (RH)
15
B-35
BLK 0.5
AX003B
7
8
B-132
GRN/RED 0.5
H-31
BA040B
4
2
D-41
BLK 0.5
BX24
10
H-31
2
D-43
BLK 0.5
BX25
5
H-32
BLK 0.5
BX025A
14
B-144
1
BLK 2
1
ZZ050B
B-600 Splice Pack
B-377 Splice Pack
10
BLK 2
ZZ051B
10
BLK 0.5
BX024B
J/B 2
B-601 Splice Pack
8
4
B-144
BLK 2
6
1
BLK 2
ZZ052B
1
B-48 Junction Block
B-602 Splice Pack
5
BLK 3
ZZ0210B
5
BLK 2
ZZ003B
Ground Distribution
B-51
B-53

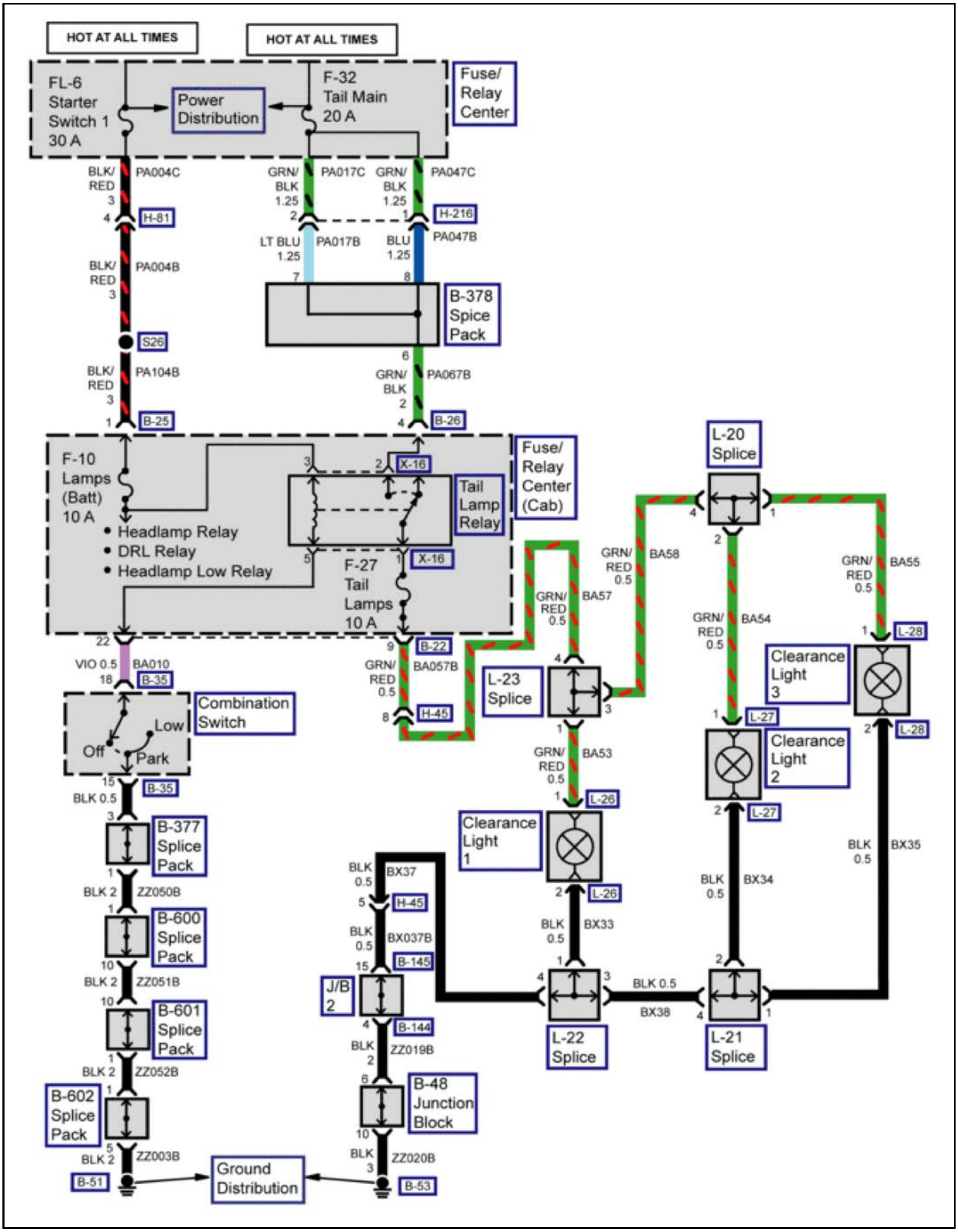
4892260

Backup Alarm System Schematics (Roof Marker Lamps)


HOT AT ALL TIMES
HOT AT ALL TIMES
FL-6 Starter Switch 1 30 A
Power Distribution
F-32 Tail Main 20 A
Fuse/ Relay Center
BLK/ RED 3
PA004C
GRN/ BLK 1.25
PA017C
GRN/ BLK 1.25
PA047C
H-216
H-81
LT BLU 1.25
PA017B
BLU 1.25
PA047B
BLK/ RED 3
PA004B
B-378 Splice Pack
S-26
BLK/ RED 3
PA104B
GRN/ BLK 2
PA067B
B-25
B-26
F-10 Lamps (Batt) 10 A
X-16
Tail Light Relay
Fuse/ Relay Center (Cab)
Headlight Relay
DRL Relay
Headlight Low Relay
X-16
F-27 Tail Lamps 10 A
L-23 Splice
GRN/RED 0.5
BA58
L-20 Splice
GRN/ ORN 0.5
BA010B
B-22
GRN/ RED 0.5
BA057B
GRN/ RED 0.5
BA57
GRN/ RED 0.5
BA52
GRN/ RED 0.5
BA56
B-35
Combination Switch
Off
Low
Park
H-45
L-25
Marker Lamp 2
L-24
Marker Lamp 1
B-35
BLK 0.5
AX003B
BLK 0.5
BX32
BLK 0.5
BX36
B-377 Splice Pack
L-22 Splice
BLK 0.5
BX38
L-21 Splice
BLK 2
ZZ050B
BLK 0.5
BX37
B-600 Splice Pack
H-45
BLK 0.5
BX037B
B-145
BLK 2
ZZ051B
J/B 2
B-601 Splice Pack
B-144
BLK 2
ZZ019B
BLK 2
ZZ052B
B-48 Junction Block
B-602 Splice Pack
BLK 2
ZZ003B
B-51
Ground Distribution
BLK 3
ZZ020B
B-53

4892263

Backup Alarm System Schematics (Roof Clearance Lamps)


HOT AT ALL TIMES
HOT AT ALL TIMES
FL-6 Starter Switch 1 30 A
Power Distribution
F-32 Tail Main 20 A
Fuse/ Relay Center
BLK/ RED 3
PA004C
GRN/ BLK 1.25
PA017C
GRN/ BLK 1.25
PA047C
4
H-81
2
1
H-216
BLK/ RED 3
PA004B
LT BLU 1.25
PA017B
BLU 1.25
PA047B
7
8
B-378 Spice Pack
6
S26
BLK/ RED 3
PA104B
GRN/ BLK 2
PA067B
1
B-25
4
B-26
F-10 Lamps (Batt) 10 A
3
2
X-16
Tail Lamp Relay
Fuse/ Relay Center (Cab)
• Headlamp Relay
• DRL Relay
• Headlamp Low Relay
5
1
X-16
F-27 Tail Lamps 10 A
L-20 Splice
4
1
2
GRN/ RED 0.5
BA58
GRN/ RED 0.5
BA55
GRN/ RED 0.5
BA57
GRN/ RED 0.5
BA54
1
L-28
22
9
B-22
VIO 0.5
BA010
18
B-35
GRN/ RED 0.5
BA057B
L-23 Splice
4
3
Clearance Light 3
Combination Switch
Low
Off
Park
8
H-45
1
L-27
1
Clearance Light 2
2
L-28
GRN/ RED 0.5
BA53
15
B-35
BLK 0.5
3
B-377 Splice Pack
1
L-26
Clearance Light 1
2
L-27
BLK 0.5
BX35
1
BLK 2
ZZ050B
BLK 0.5
BX37
5
H-45
2
L-26
BLK 0.5
BX34
1
B-600 Splice Pack
BLK 0.5
BX037B
BLK 0.5
BX33
10
15
B-145
BLK 2
ZZ051B
J/B 2
1
2
4
3
BLK 0.5
BX38
4
1
10
B-601 Splice Pack
4
B-144
L-22 Splice
L-21 Splice
1
BLK 2
ZZ052B
BLK 2
ZZ019B
1
6
B-48 Junction Block
B-602 Splice Pack
5
BLK 2
ZZ003B
10
BLK 3
ZZ020B
B-51
Ground Distribution
B-53

4892265

Description and Operation

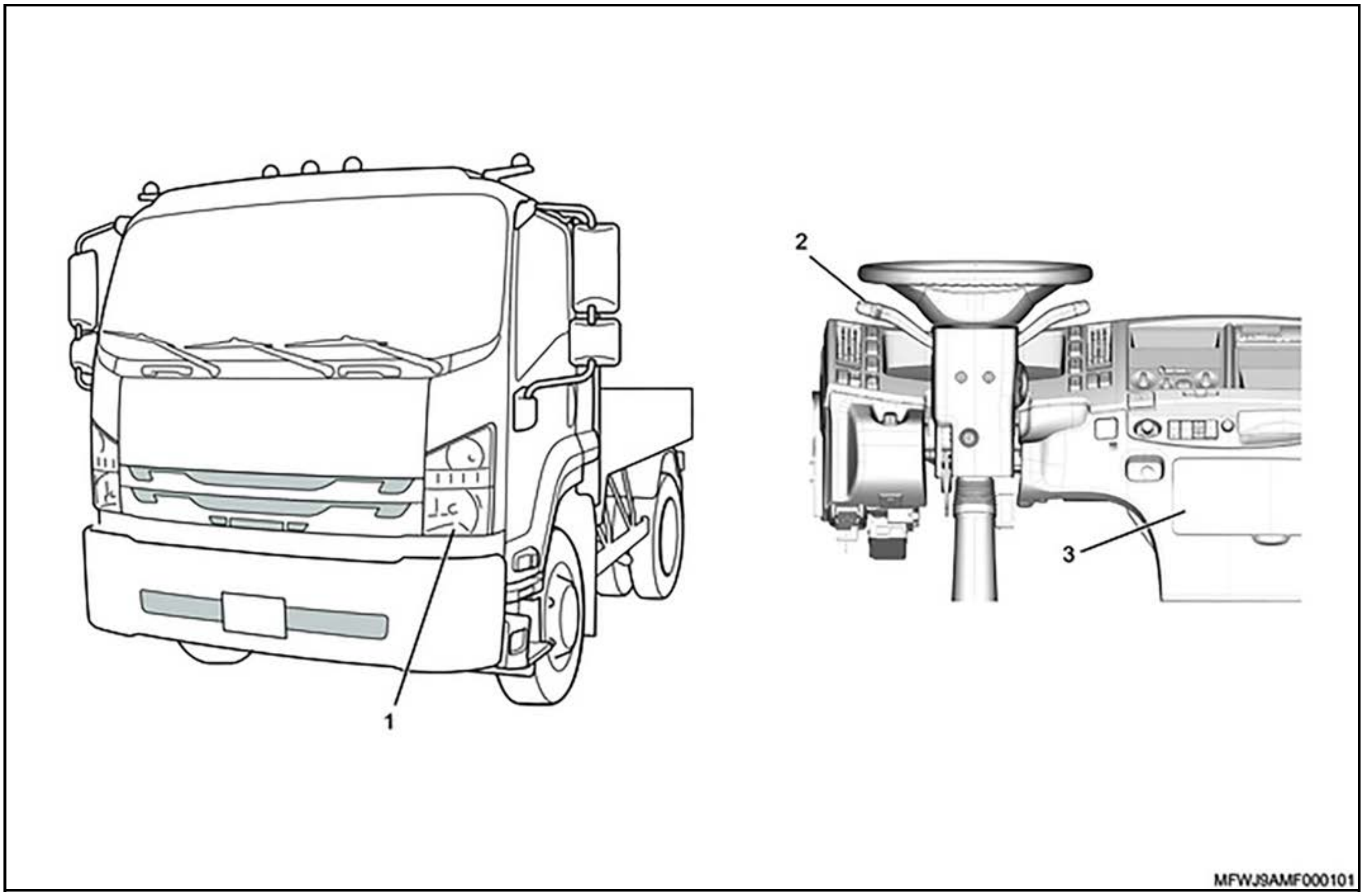
Lighting Systems Description

Halogen Headlight System

This circuit comprises the headlights, cornering lights, DRL control unit, ignition switch, combination switch, high beam indicator light, and relays. When the lighting switch is turned ON in the headlight position, the headlight relay will be activated and the headlights will be illuminated. When the headlights are illuminated, the optical axis of the headlight can be faced upward and downward alternately using the lighting switch.

The optical axis of the passing switch will face upward only when the switch lever is being pulled up, regardless of the headlight switch position.

If the parking brake is released with the engine started, the headlights will illuminate at approximately 70% as daytime running lights. When the lighting switch is turned ON in the headlight position, the headlights will illuminate at 100%.



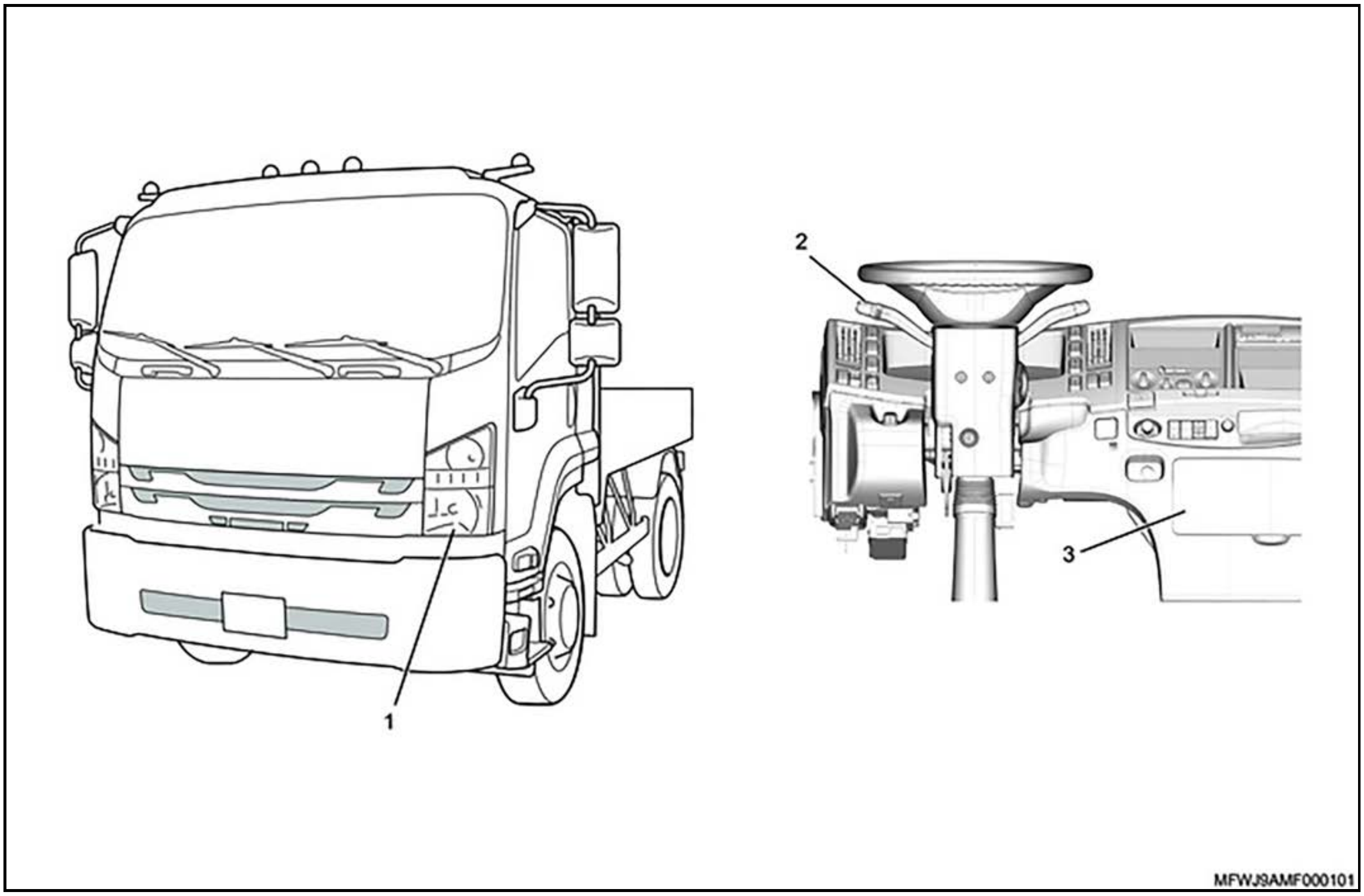
4873537

Legend

(1) Headlight
(2) Combination Switch
(3) Relay Box

Clearance Light System

This circuit comprises the clearance lights, ignition switch, combination switch, and relays. When the lighting switch is turned ON in the headlight or the taillight position, the taillight relay will be activated and the clearance lights will be illuminated.



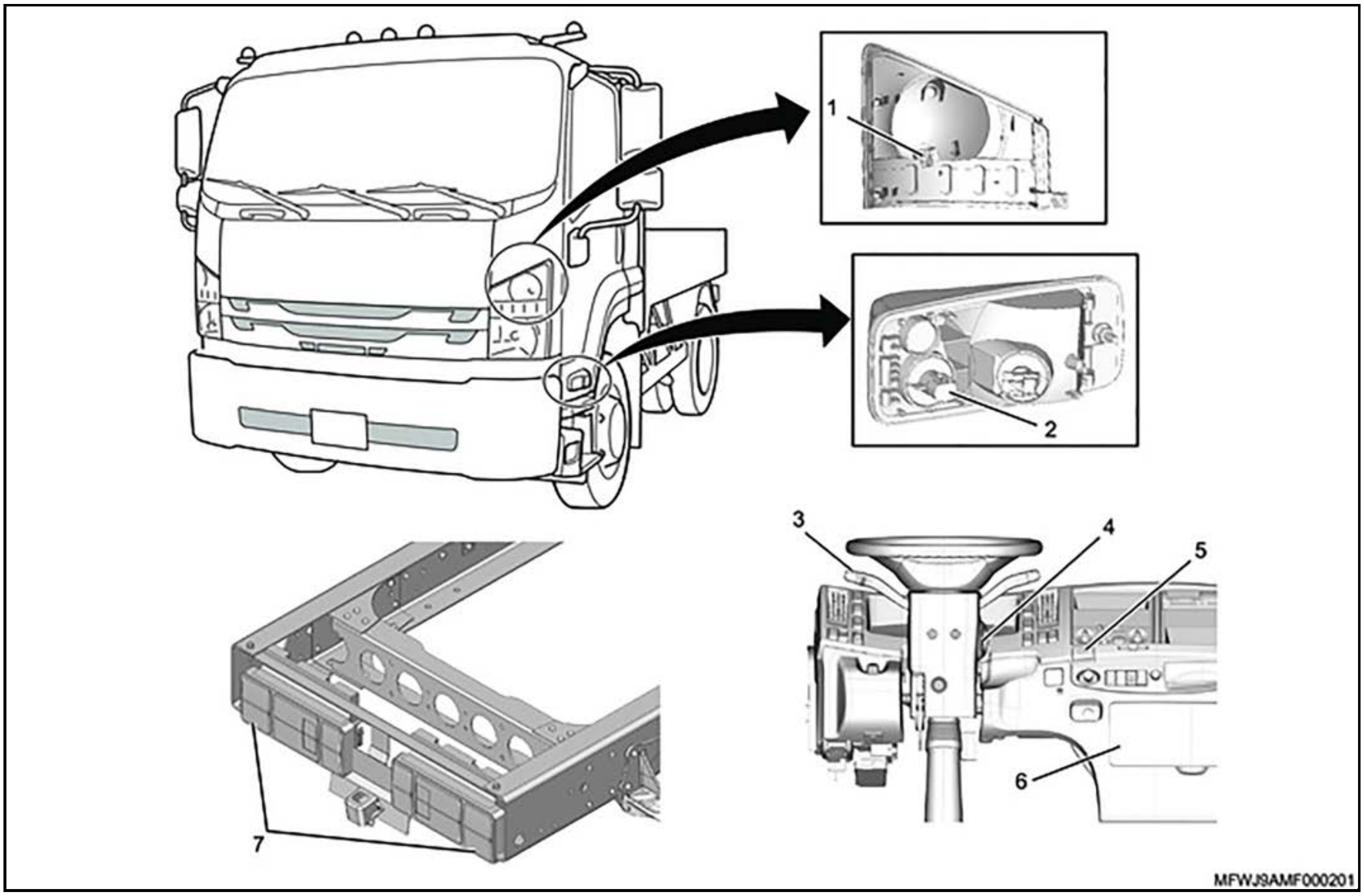
4873537

Legend

(1)	Clearance Light	(3)	Ignition Switch
(2)	Combination Switch	(4)	Relay Box

Turn Signal Light and Hazard Light System

This circuit comprises the turn signal lights, ignition switch, combination switch, flasher unit, hazard warning flasher switch. When the turn signal switch or the hazard warning flasher switch is turned ON, the flasher unit will be activated and the turn signal lights will be illuminated. The turn signal lights are also illuminated by the answer-back function of the keyless entry system.



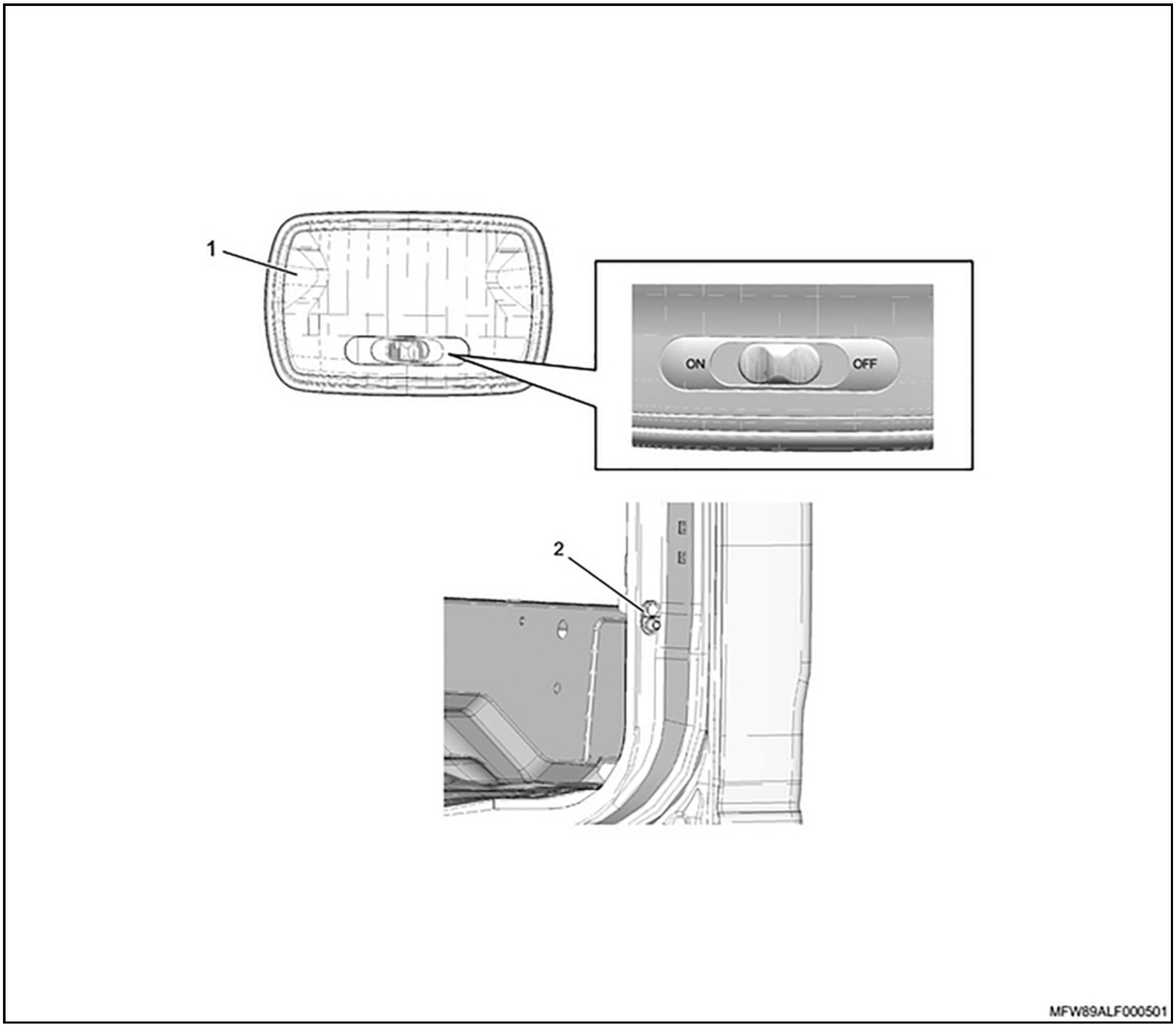
4873547

Legend

(1) Front Turn Signal Light
(2) Side Turn Signal Light
(3) Combination Switch
(4) Ignition Switch
(5) Hazard Warning Flasher Switch
(6) Relay Box
(7) Rear Turn Signal Light

Dome Light System

This circuit comprises the dome light, door switches, key reminder switch, keyless entry control unit, relays, etc. When the switch on the dome light body is in the center position, the keyless entry control unit illuminates the dome light if the door switch is turned ON. Also, when the key is removed from the key cylinder, the keyless entry control unit will illuminate the dome light.



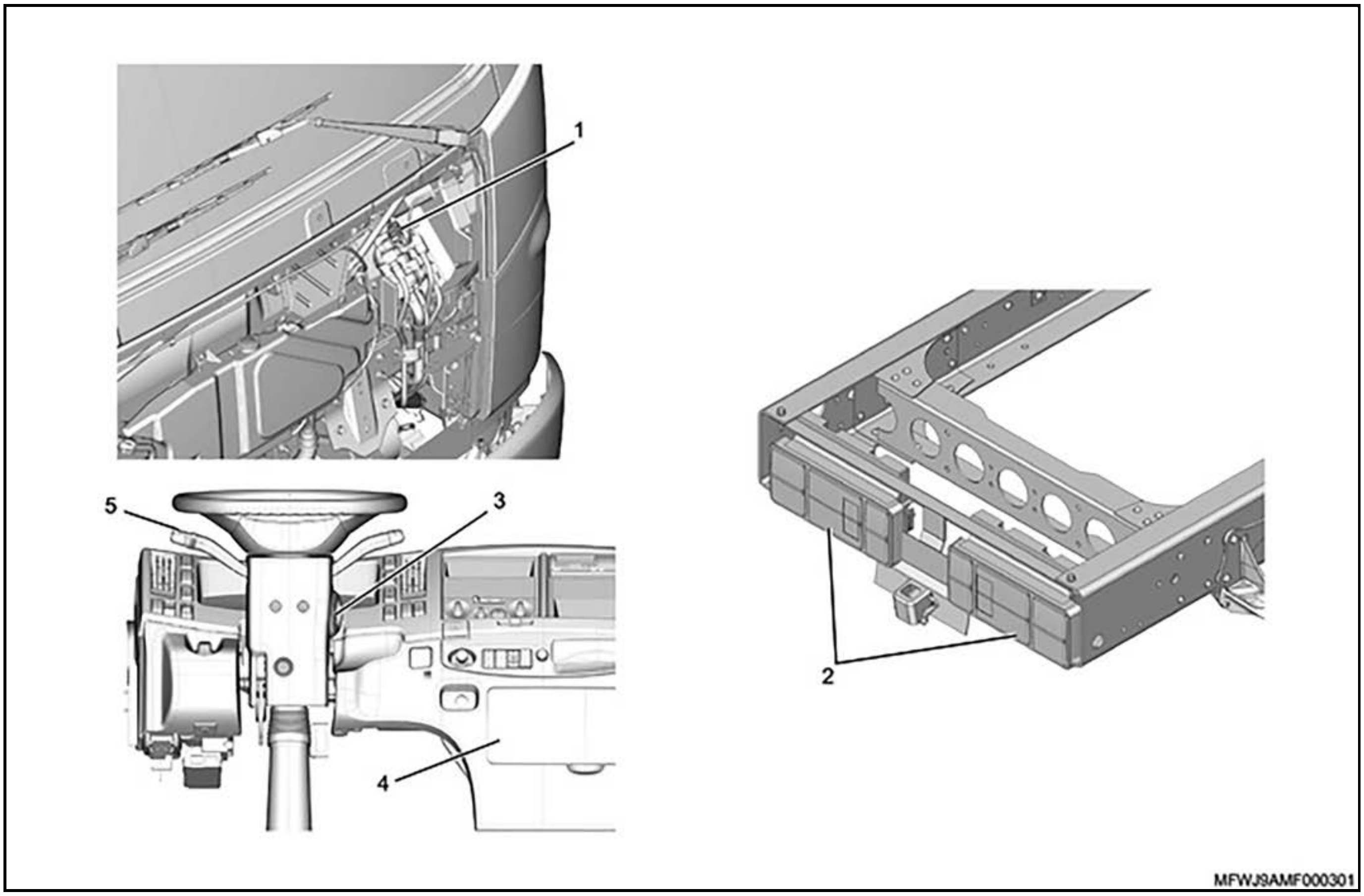
4873549

Legend

(1)	Dome Light
(2)	Door Switch

Taillight and Stoplight System

This circuit comprises the taillights, stoplights, ignition switch, combination switch, stoplight switch, and relays. When the lighting switch is turned ON in the headlight or taillight position, the taillight relay will be activated and the taillights will be illuminated. The stoplights illuminate according to the operation of the stoplight switch.



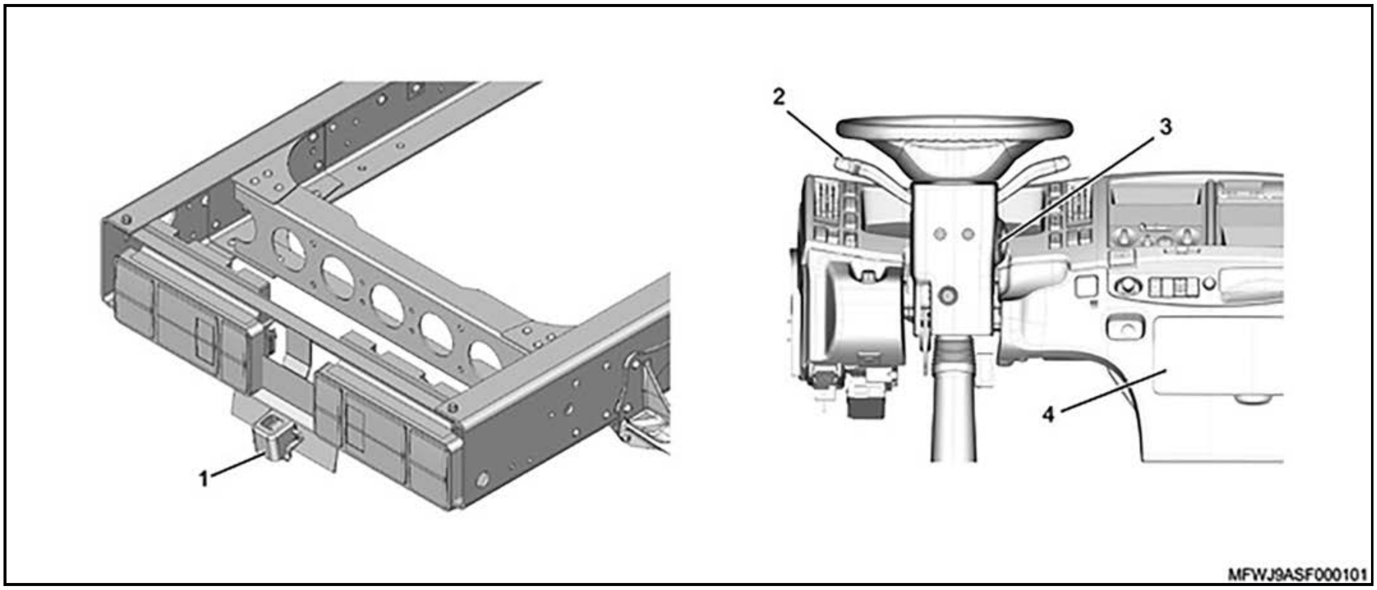
4873552

Legend

(1)	Stoplight Switch
(2)	Taillight And Stoplight
(3)	Ignition Switch
(4)	Relay Box
(5)	Combination Switch

License Plate Light System

This circuit comprises the license plate light, ignition switch, combination switch, and relays. When the lighting switch is turned ON in the headlight or taillight position, the taillight relay will be activated and the license plate lights will be illuminated.



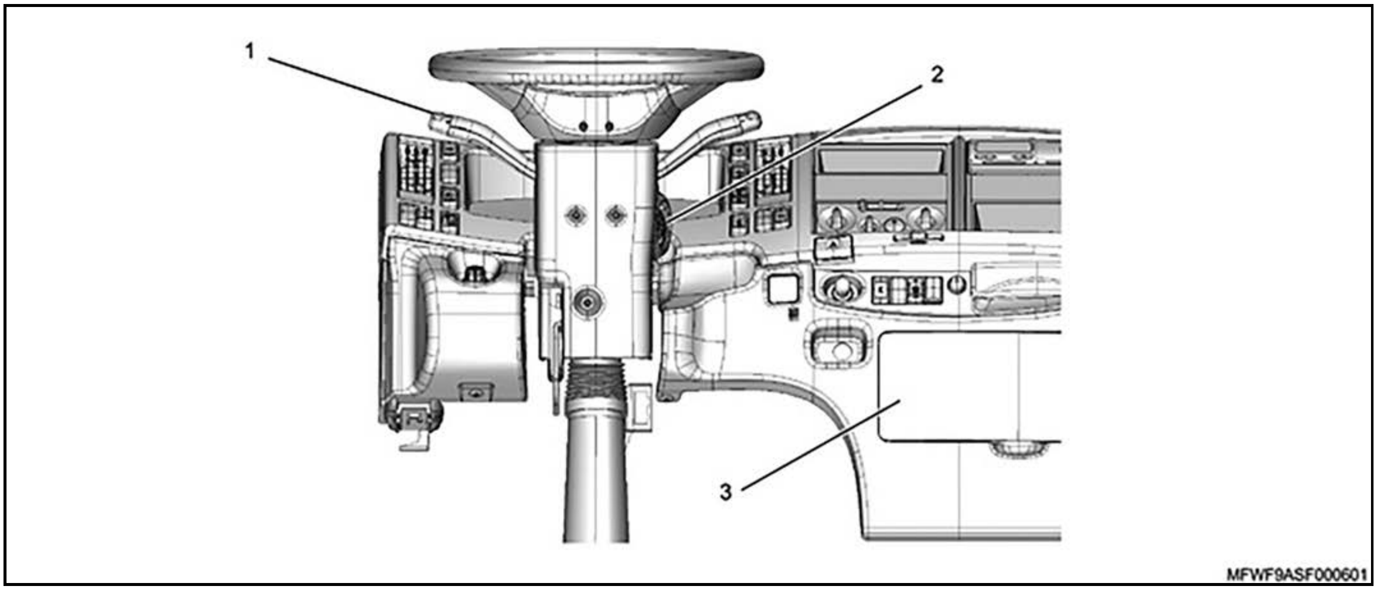
4873554

Legend

(1)	License Plate Light	(3)	Ignition Switch
(2)	Combination Switch	(4)	Relay Box

Illumination Light System

This circuit comprises the illumination lights, ignition switch, combination switch, and relays. When the lighting switch is turned ON in the headlight or taillight position, the taillight relay will be activated and the illumination lights will be illuminated.



4873556

Legend

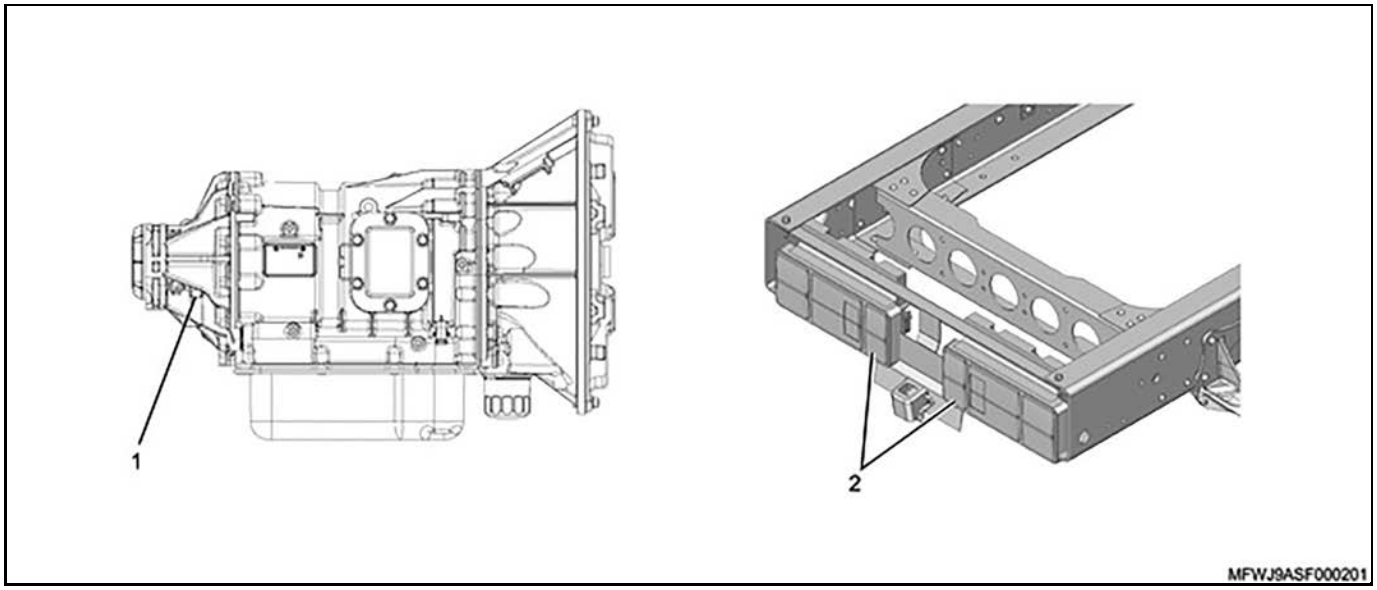
(1) Combination Switch
(2) Ignition Switch
(3) Relay Box

---

1. LED type
   - Instrument panel cluster
   - Cruise control main switch
   - DPF switch
   - Rear body interior light switch
   - PTO engine speed control switch
   - PTO main switch
   - Illumination control switch
   - Odometer check switch
   - Engine oil level check switch
   - Mirror heater switch
   - Hazard warning flasher switch
2. Bulb type
   - A/C panel of manual A/C
   - Power supply
   - Radio and audio

Backup Light System

This circuit comprises the backup lights and the backup light switch. When the backup light switch installed to the transmission is turned ON, the backup lights will illuminate.



4873558

Legend

(1)	Backup Light Switch	(2)	Backup Light

Wiper/Washer Systems Description

The wiper and washer system comprise the following units. The system is activated when the ignition switch is in the ON position.

- Wiper/washer switch
- Wiper relay
- Wiper motor
- Washer motor
- Washer nozzle
- Washer tank
- Wiper arm and blade
- Link rod

Note: The wiper relay controls the wiper intermittent drive and the windshield washer interlock drive of the wiper motor. The washer motor and high speed operation are controlled directly by the wiper switch and washer switch.

Windshield Washer

When the windshield washer switch is turned ON, the washer motor will operate. The wiper relay activates the wiper main relay slightly later to drive the wiper motor at a low speed.

Wiper Intermittent Drive

When the wiper switch is at the INT position, the wiper relay activates the wiper main relay at fixed intervals to drive the wiper motor intermittently at low speed.

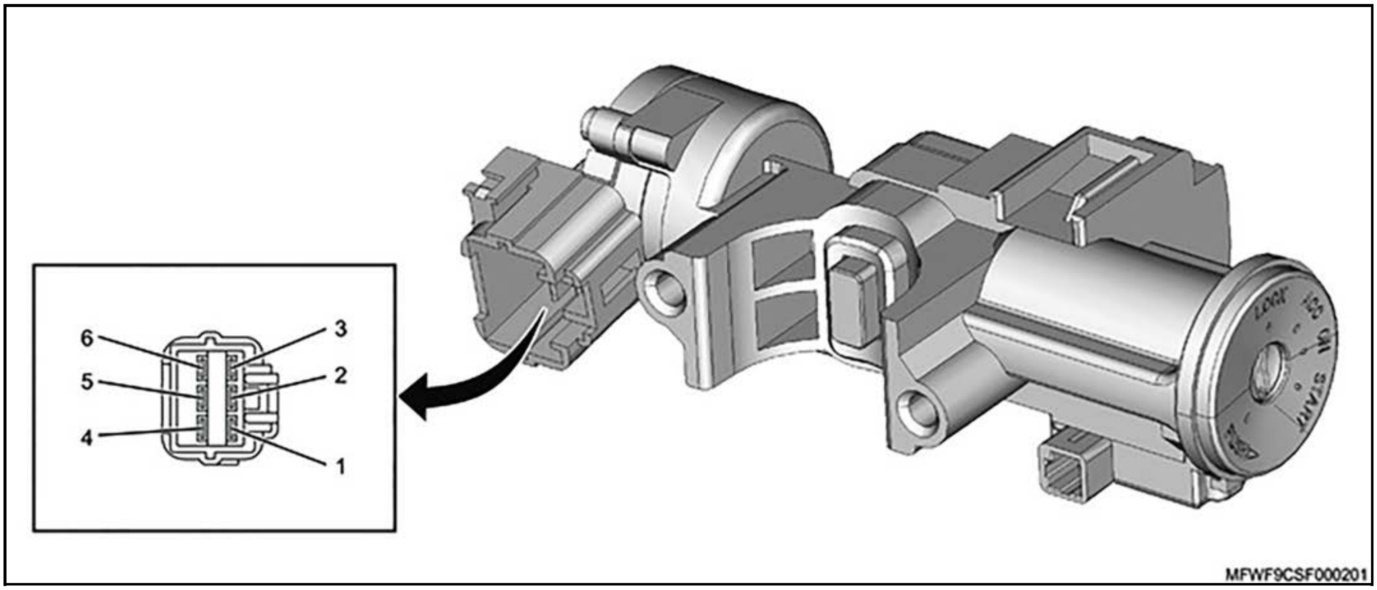
Wiper Low-Speed Drive

When the wiper switch is at the LO position, the wiper main relay is activated to drive the wiper motor at low speed.

Wiper High-Speed Drive

When the wiper switch is in the HI position, the wiper main relay and wiper high low relay are activated to drive the wiper motor at high speed.

Ignition Switch Description



4873562

Legend

(1)	IG2
(2)	ST
(3)	B2
(4)	B1
(5)	ACC
(6)	IG1

Driver Information Description

Meter System

The following gauges and various warning lights and indicator lights are assembled to the meter.

- Speedometer
- Tachometer
- Fuel gauge
- Engine coolant temperature gauge
- Air pressure gauge
- Odometer and trip meter
- Multi-information display

Note: These components cannot be replaced separately because they are integrated with the instrument panel cluster. Also, they communicate with the control units such as the ECM and TCM via CAN.

Speedometer

The speedometer displays the vehicle speed based on the vehicle speed signal output from the ECM. The vehicle speed signal corrected by the ECM is input to the speedometer via CAN communication.

Tachometer

The tachometer indicates the engine speed based on the engine speed signal outputted from the ECM. The ECM detects the engine speed signal from the CKP sensor, and the signal is input to the tachometer via CAN communication.

Fuel Gauge

The fuel gauge displays the remaining fuel level based on the signal output from the fuel tank unit. The fuel gauge displays the remaining fuel level as low when the resistance detected by the fuel tank unit is high. The fuel gauge displays the remaining fuel level as high when the resistance detected by the fuel tank unit is low.

Engine Coolant Temperature Gauge

The engine coolant temperature gauge displays the engine coolant temperature based on the engine coolant temperature signal output from the ECM. The ECM detects the engine coolant temperature signal from the engine coolant temperature sensor, and the signal is input to the engine coolant temperature gauge via CAN communication.

Air Pressure Gauge (Primary)

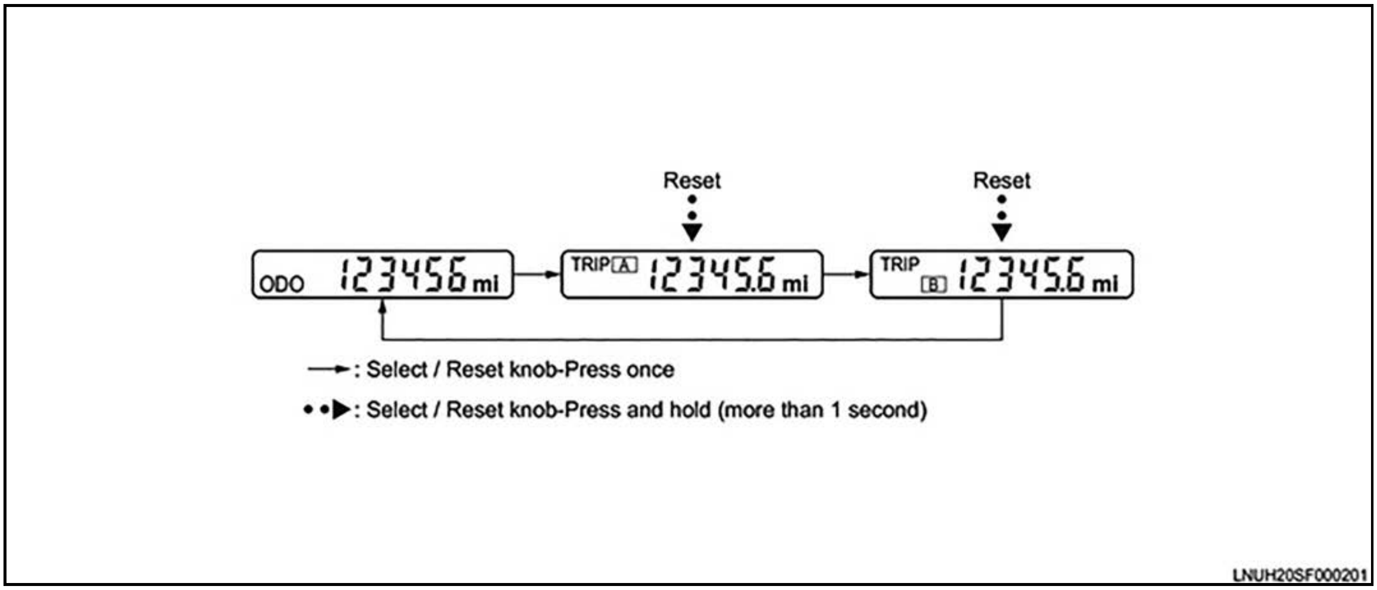
The air pressure gauge displays the pressure inside the primary side air tank based on the air pressure signal output from air pressure sensor 1.

Air Pressure Gauge (Secondary)

The air pressure gauge displays the pressure inside the secondary side air tank based on the air pressure signal output from air pressure sensor 2.

Odometer and Trip Meter

The odometer and trip meter display the mileage count or the traveled distance between locations from calculation of mileage based on the vehicle speed signal output from the vehicle speed sensor. The display is switched by operating the select/reset knob. The odometer and trip meter will be displayed for 5 minutes after the ignition switch is turned OFF.


Reset
Reset
ODO 123456 mi
TRIP A 12345.6 mi
TRIP B 12345.6 mi
→ : Select / Reset knob-Press once
• •▶ : Select / Reset knob-Press and hold (more than 1 second)
LNUH20SF000201

4873565

Multi-Information Display Specification Display Switchover

Multi-information Display

The multi-information display has the ability to display information, warning lights, indicator lights, and maintenance information.

Information Display

The following information is displayed on the multi-information display.

- Overall fuel efficiency
- Sectional fuel efficiency
- Instantaneous fuel efficiency

Fuel efficiency display is requested to the information module and the data obtained via CAN communication will be displayed.

99.9 MPG is displayed when the overall or the sectional fuel efficiency data is 99.9 MPG or more.

If no information on overall fuel efficiency, sectional fuel efficiency, and instantaneous fuel efficiency is obtained via CAN communication, ERROR is displayed on each display.

In order to reset the overall fuel efficiency display, the data in the information module must be reset.

The sectional fuel efficiency is reset simultaneously when trip B is reset.

The instantaneous fuel efficiency is the fuel consumption at any given moment while operating the vehicle.

Hour Meter

The accumulated operation hours of the engine is displayed. The engine operating time is connected with engine operation, and is calculated by the information module with information obtained via CAN communication. If no information is obtained through CAN communication, ERROR will be displayed.

DPF Regeneration Progress and Accumulation

The ECM calculates the DPF display and obtains the DPF regeneration status signal via CAN communication. Regeneration progress is displayed when DPF regeneration is in progress, and PM accumulation is displayed when DPF regeneration is not in progress. If no information is obtained through CAN communication, ERROR will be displayed.

The DPF regeneration progress is displayed in 6 levels. Progress in the information display decreases as the regeneration progresses.

The PM accumulation is displayed in 6 levels. Accumulation in the information display increases as the accumulation volume increases.

Voltmeter

The battery voltage is displayed in a scale of 9 levels.

Calendar and Clock

A calendar or a clock can be displayed.

Warning Light and Indicator Light Display

The following warning lights and indicator lights are displayed on the multi-information display.

- Air cleaner inspection

  If the intake pressure drops to 6.2 kPa or less after the engine starts, the pressure switch installed on the air cleaner turns ON and the instrument panel cluster receives signals from the clogging switch and displays the notification of the element cleaning period.
- Engine oil level inspection

  It is displayed when the oil level signal is received from the ECM and the engine oil level has decreased.
- DPF automatic regeneration is in progress.

  It is displayed during DPF automatic regeneration.
- DPF optional regeneration verification is in progress.

  It is displayed while verifying if DPF optional manual regeneration is possible.
- Press the DPF switch.

It is displayed when DPF manual regeneration must be performed. The buzzer also sounds.

- DPF manual regeneration is in progress.

  It is displayed during DPF manual regeneration.
- Fuel filling

  It is displayed when the fuel level decreases.
- Water separator (fuel filter) warning

  It is displayed when water is in the fuel filter and needs to be drained.
- Engine has overheated

  It is displayed if the engine overheats. If the engine overheats, the engine coolant temperature gauge enters the red zone and the warning buzzer sounds at the same time.
- PTO operation display

  It is displayed when the PTO is operated.
- Cab tilt

  It is displayed when the ignition switch is in the ON position and the cab lock is not locked securely.
- Communication system malfunction

  It is displayed when there is a communication failure between the instrument panel cluster and the instrument panel cluster peripheral systems.
- Voltage malfunction

  It is displayed when the battery voltage is too high or too low.
- Diagnostic display

  When pins 12 and 4 or 5 of the DLC are short-circuited with the ignition switch ON, the diagnosis codes of the ISS are displayed.

  – SCR system-related warning light

  – Restart is inhibited (Abnormal urea fluid quality)

  – Restart is inhibited (Urea fluid filling)

  – Abnormal urea fluid quality

  – Urea fluid filling

  – Abnormal urea fluid injection

Maintenance Indications

For each maintenance item, the running distance or the number of times remaining until the next maintenance preset timing is counted down on the display. The exceeded mileage or the exceeded number of times will be displayed as a negative value. When the maintenance timing is approaching, the background color of the indicator light will change from green to amber. If no information is obtained through CAN communication, ERROR will be displayed.

If the display shows other items when the maintenance timing is approaching, it forcibly changes to show the item that requires maintenance when the vehicle speed drops to 25 km/h or less. The display will remain until the 3-mode switch is short pressed or when the vehicle speed exceeds 25 km/h. Also, after the ignition switch is turned ON, the item that needs maintenance will be forcibly displayed, even when there is a warning.

There are the following 5 display items:

- Engine oil and filter
- T/M oil and differential oil
- Fuel filter
- Power steering fluid
- Tire rotation

Multi-Information Display Main Routine

The multi-information display in the meter panel is divided into 3 parts, which displays the following. Select the display or functions with the 3-mode switch:

- Warning light and warning light display
- Information display
- DPF and urea SCR display
- Maintenance indications
- ERROR display

Maintenance Display and Reset Function

Engine Oil and Filter Inspection

The remaining life data of the engine oil is input from the ECM via CAN communication and the running distance remaining until the next inspection timing is counted down on the multi-information display. In addition, the exceeded mileage will be displayed as a negative value. Operate the 3-mode switch to display and inspect the engine oil and filter.

Note: If replacement is done, set and reset the engine oil and filter display.

Engine Oil and Filter Display Set/Reset

By performing the set/reset operation, the engine oil and filter replacement period can be reset to 10,000 miles (16,000 km). Press and hold the 3-mode switch on the engine oil and filter display screen, and after the set/reset screen is displayed, decid e the distance by turning the 3- mode switch right or left, then press and hold the 3-mode switch.

Transmission Oil and Differential Oil Inspection

Based on the data calculated from the accumulated distance, the running distance remaining until the next inspection timing is counted down on the multi-information display. In addition, the exceeded mileage will be displayed as a negative value. Operate the 3-mode switch to display and inspect the T/M oil and differential oil.

Note: If replacement is done, reset the T/M oil and differential oil display.

T/M Oil and Differential Oil Display Reset

By performing the reset operation, the T/M oil and differential oil replacement period can be reset to 30,000 miles (48,000 km). Press and hold the 3-mode switch on the T/M oil and differential oil display screen, and after the set/reset screen is displayed, decide the distance by turning the 3-mode switch right or left, then press and hold the 3-mode switch.

Fuel Filter Inspection

Based on the data calculated from the accumulated distance, the running distance remaining until the next inspection timing is counted down on the multi-information display. In addition, the exceeded mileage will be displayed as a negative value. Operate the 3-mode switch to display and inspect the fuel filter.

Note: If replacement is done, reset the fuel filter display.

Fuel Filter Display Reset

By performing the reset operation, the fuel filter display is reset to 15,000 miles (24,000 km).

Press and hold the 3-mode switch on the mileage display screen, and after the reset screen is displayed, press and hold the 3-mode switch.

Power Steering Fluid Inspection

Based on the data calculated from the accumulated distance, the running distance remaining until the next inspection timing is counted down on the multi-information display. In addition, the exceeded mileage will be displayed as a negative value. Operate the 3-mode switch to display and inspect the power steering fluid.

Note: If replacement is done, reset the power steering fluid display.

Power Steering Fluid Display Reset

By performing the reset operation, the power steering fluid replacement period can be reset to 30,000 miles (48,000 km). Press and hold the 3-mode switch on the mileage display screen, and after the set/reset screen is displayed, decide the d istance by turning the 3-mode switch right or left, then press and hold the 3-mode switch.

Inspection at Tire Rotation Timing

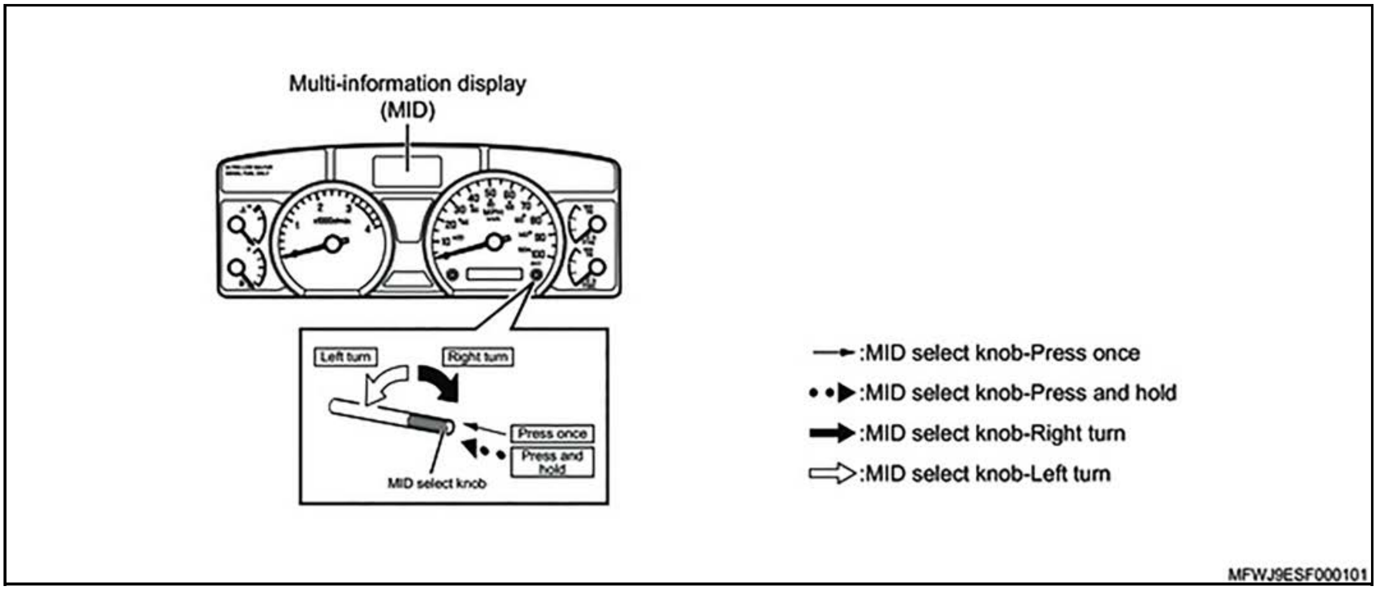
Based on the data calculated from the accumulated distance, the running distance remaining until the next tire rotation timing set by the driver is counted down on the multi-information display. In addition, the exceeded mileage will be displayed as a negative value. Operate the 3-mode switch to display and inspect the tire rotation.

Tire Rotation Display Set/Reset

The tire rotation timing can be reset to any time by performing the set/reset operation.

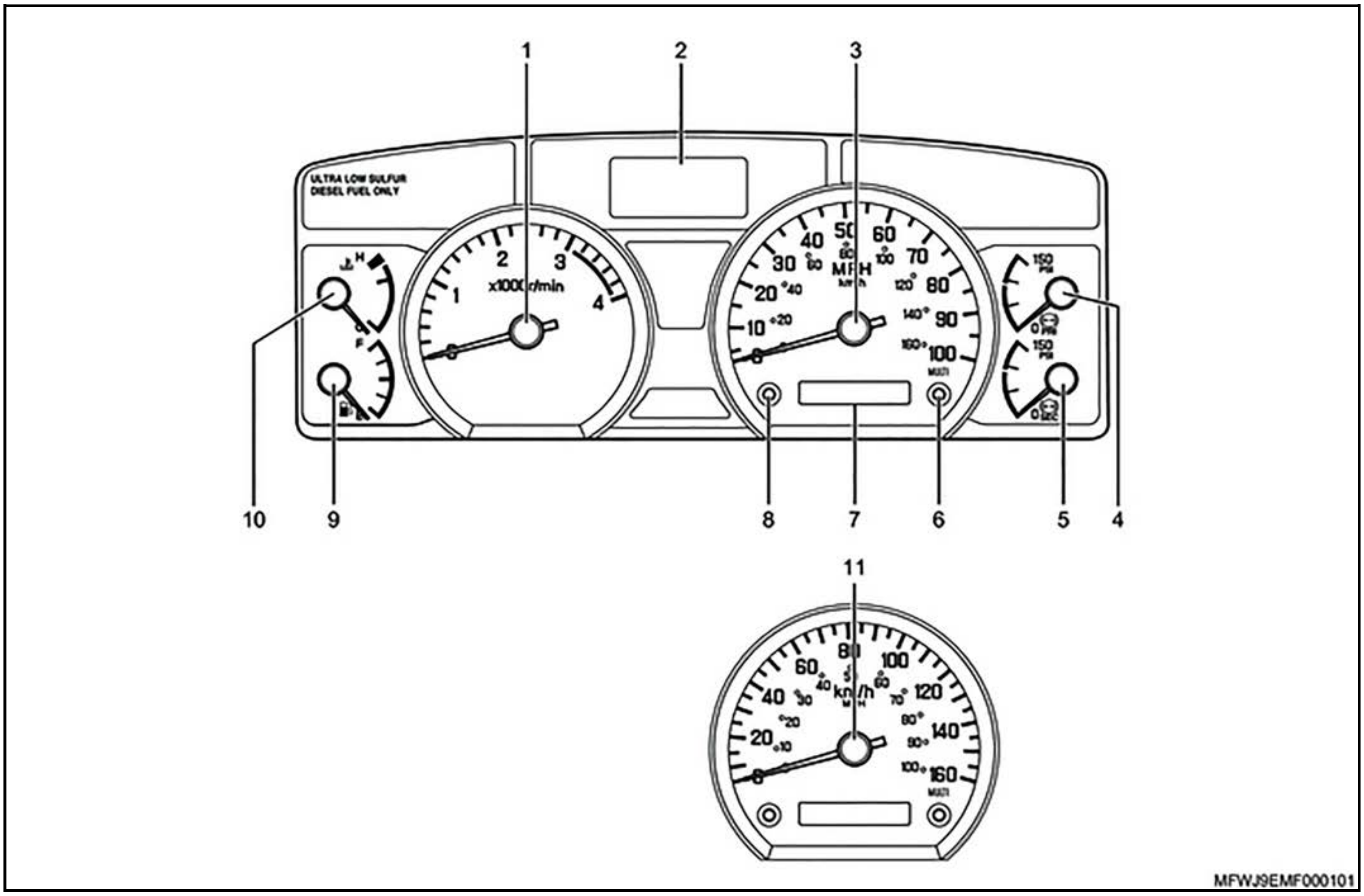
Press and hold the 3-mode switch on the tire rotation display screen, and after the mile age set/reset screen is displayed, turn the 3-mode switch to the right to increase the distance or to the left to decrease the distance. The tire rotation display can be reset to any value by pressing and holding the 3-mode switch.

Multi-Information Display Operation Procedures


Multi-information display (MID)
Left turn
Right turn
Press once
Press and hold
MID select knob
→ :MID select knob-Press once
• • ▶ :MID select knob-Press and hold
➡ :MID select knob-Right turn
⇨ :MID select knob-Left turn
MFWJ9ESF000101

4873567

Instrument Panel Cluster System Components Location Diagram

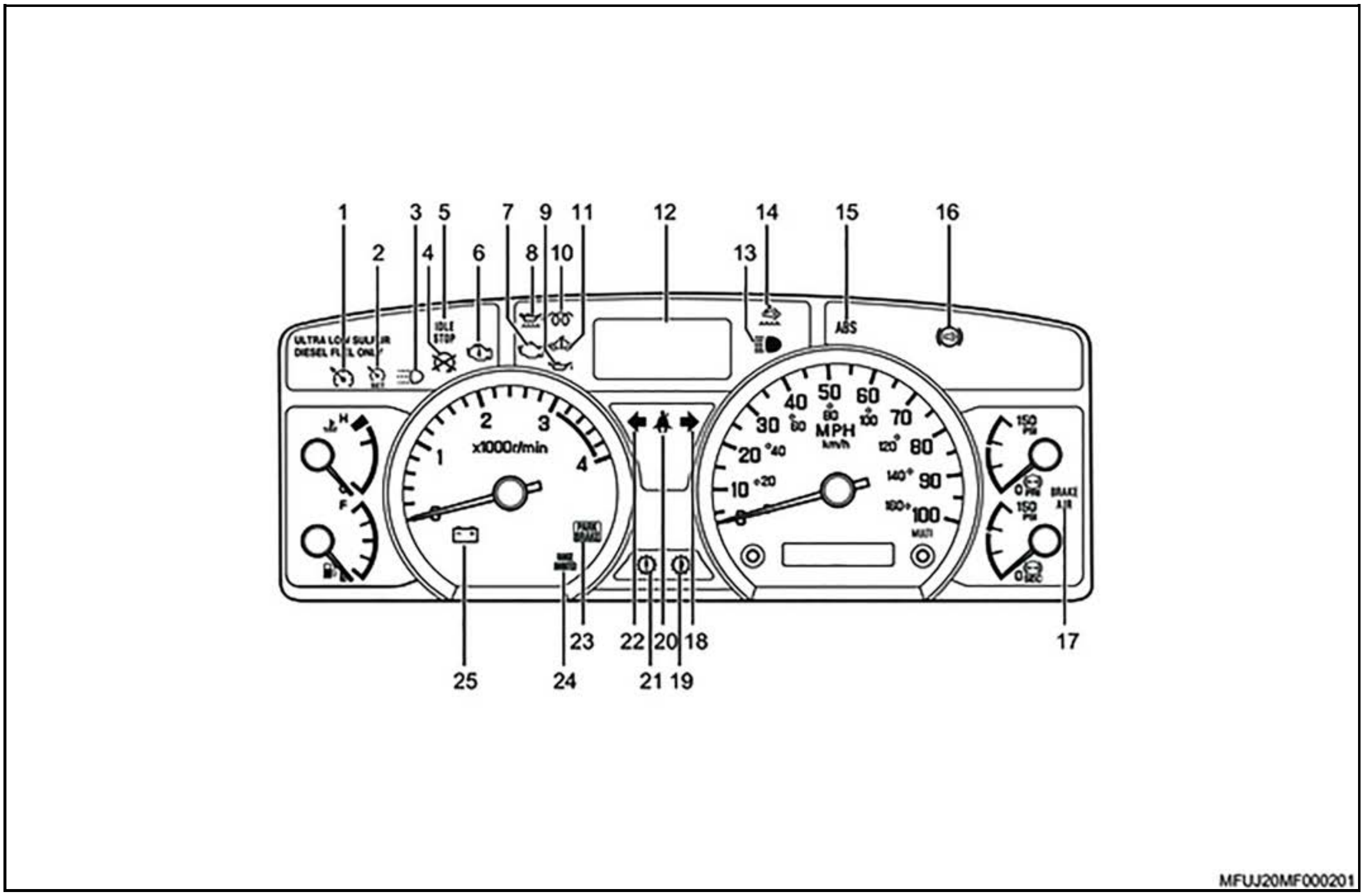

1
2
3
ULTRA LOW SULFUR
DIESEL FUEL ONLY
x1000r/min
MPH
km/h
10
9
8
7
6
5
4
11
MFWJ9EMF000101

4873570

Legend

(1) Tachometer
(2) Multi-Information Display
(3) Speedometer (MPH)
(4) Air Pressure Gauge (Primary)
(5) Air Pressure Gauge (Secondary)
(6) 3-Mode Switch
(7) Odometer And Trip Meter
(8) Select/Reset Knob
(9) Fuel Gauge
(10) Engine Coolant Temperature Gauge
(11) Speedometer (km/h)

Indicator Light and Warning Light Location Diagram

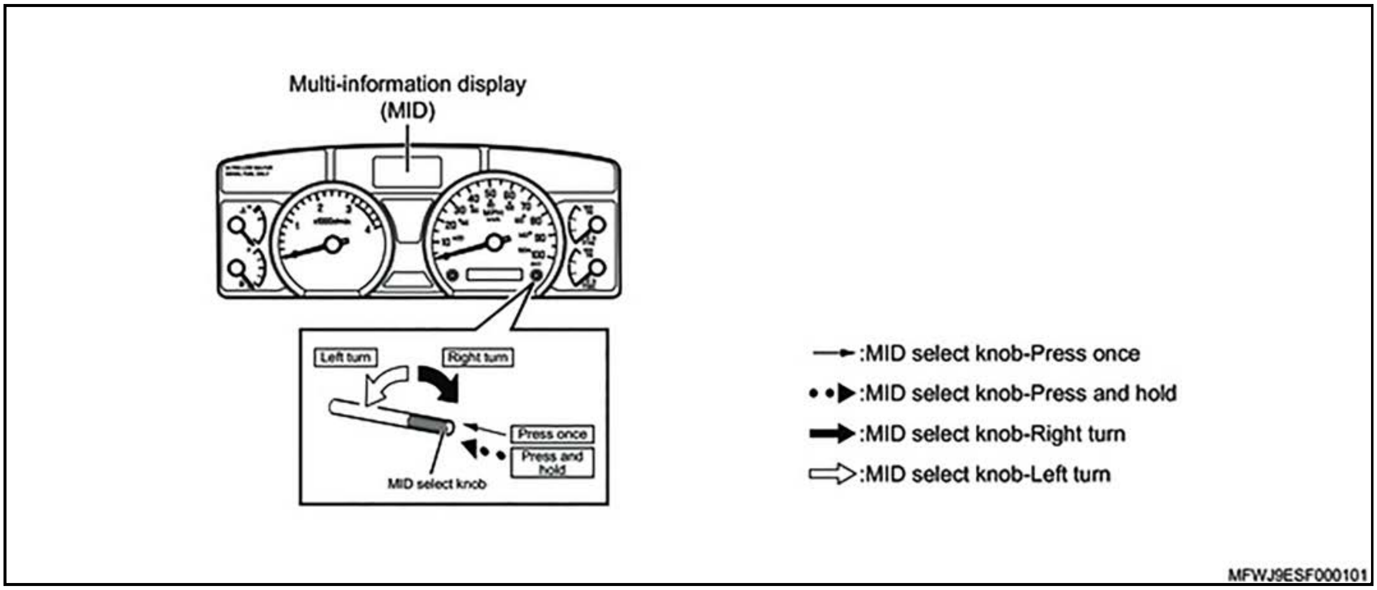

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
ULTRA LOW SULFUR DIESEL FUEL ONLY
IDLE STOP
ABS
x1000r/min
MPH
km/h
BRAKE AIR
17
18
19
20
21
22
23
24
25
MFUJ20MF000201

4873572

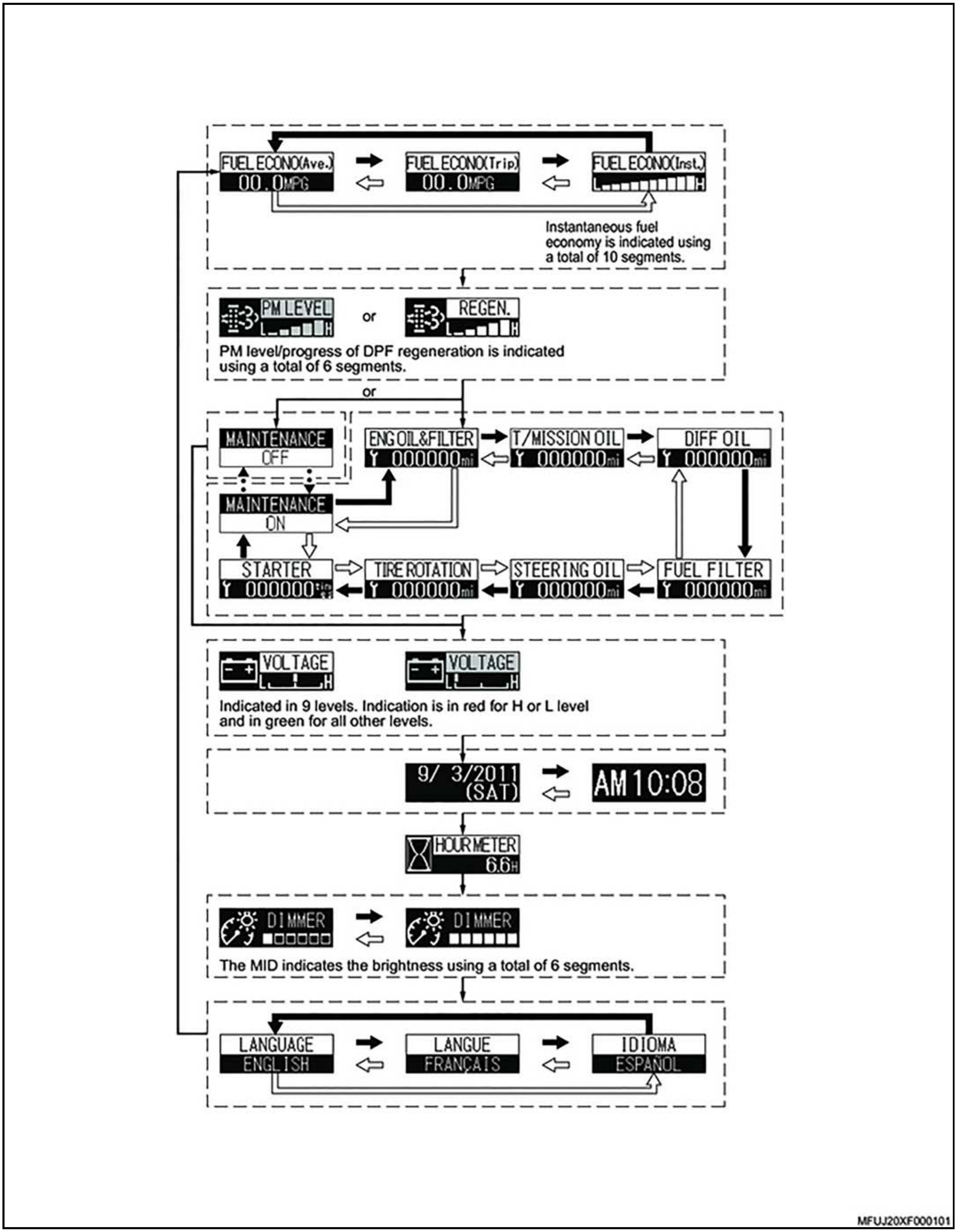
Legend

(1)	Cruise Main Indicator Light
(2)	Cruise Set Indicator Light
(3)	Daytime Running Lights (DRL) Indicator Light
(4)	Engine Alarm (Shutdown) Warning Light
(5)	Idling Stop Indicator Light
(6)	Reduced Engine Power Indicator Light
(7)	Check Engine Malfunction Indicator Light
(8)	Engine Oil Level Indicator Light
(9)	Engine Oil Pressure Warning Light
(10)	Glow Plug Indicator Light
(11)	Service Vehicle Soon (SVS) Indicator Light
(12)	Multi-Information Display (MID)
(13)	Headlights High Beam Indicator Light
(14)	Diesel Exhaust Fluid (DEF) Indicator Light
(15)	Abs Warning Light
(16)	Exhaust Brake Indicator Light
(17)	Brake System Warning Light
(18)	Turn Signal And Hazard Warning Indicator Light - Right
(19)	Automatic Transmission Fluid (ATF) Temperature Warning Light
(20)	Seat Belt Warning Light
(21)	Check Transmission Warning Light
(22)	Turn Signal And Hazard Warning Indicator Light - Left
(23)	Overdrive Off Indicator Light
(24)	Parking Brake Indicator Light
(25)	Range Inhibited Warning Light
(26)	Battery Discharge Warning Light

Multi-Information Display Indication


Multi-information display (MID)
Left turn
Right turn
Press once
Press and hold
MID select knob
→:MID select knob-Press once
• • ▶:MID select knob-Press and hold
➡:MID select knob-Right turn
⇨:MID select knob-Left turn
MFWJ9ESF000101

4873567


FUEL ECONO(Ave.)
00.0MPG
FUEL ECONO(Trip)
00.0MPG
FUEL ECONO(Inst.)
L H
PM LEVEL
L H
or
REGEN.
L H
or
MAINTENANCE
OFF
MAINTENANCE
ON
ENG OIL&FILTER
000000mi
T/MISSION OIL
000000mi
DIFF OIL
000000mi
STARTER
000000
TIRE ROTATION
000000mi
STEERING OIL
000000mi
FUEL FILTER
000000mi
VOLTAGE
L H
VOLTAGE
L H
9/ 3/2011
(SAT)
AM10:08
HOUR METER
6.6H
DIMMER
DIMMER
LANGUAGE
ENGLISH
LANGUE
FRANCAIS
IDIOMA
ESPAÑOL
MFUJ20XF000101

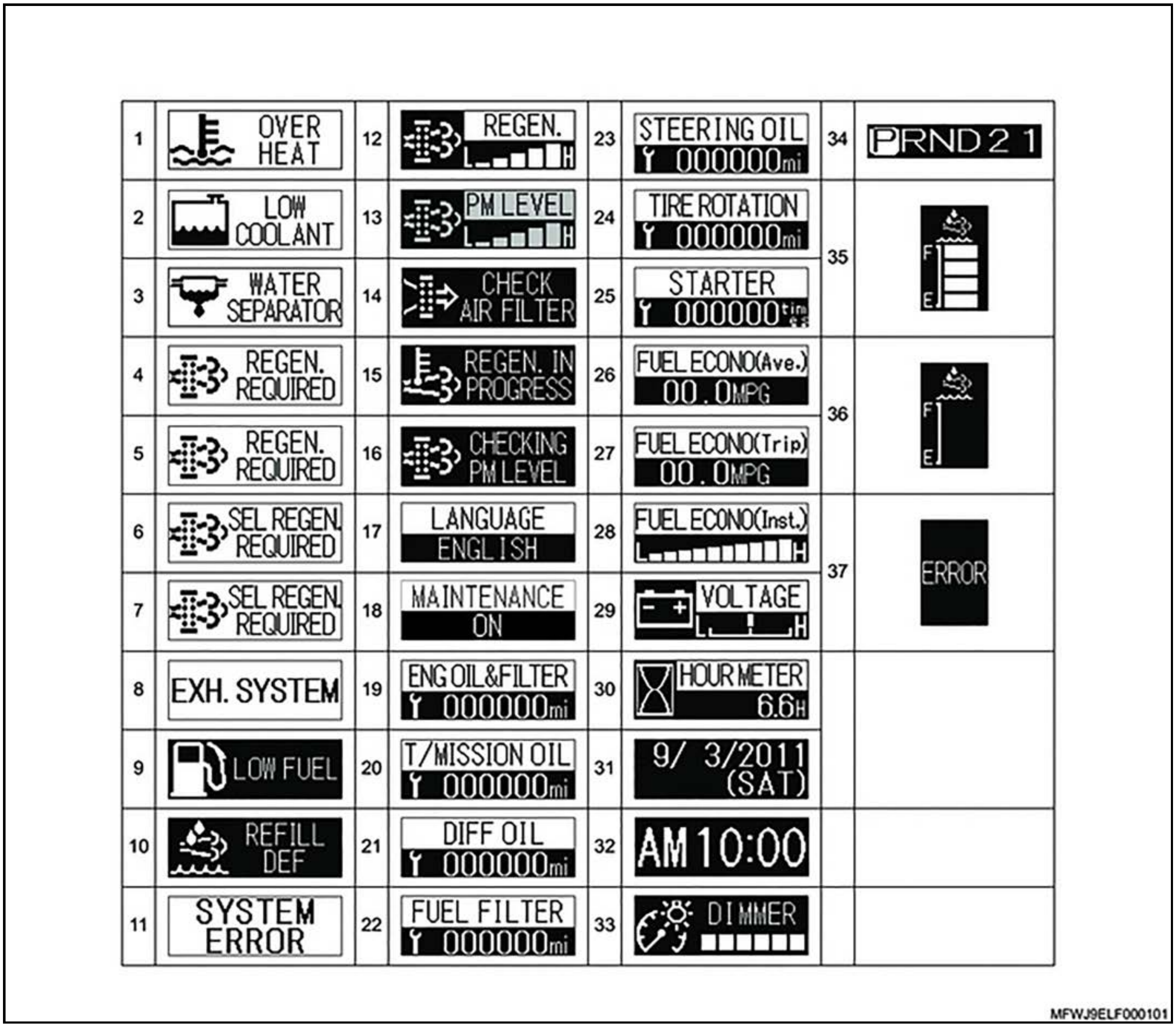
Instantaneous fuel economy is indicated using a total of 10 segments.

PM level/progress of DPF regeneration is indicated using a total of 6 segments.

Indicated in 9 levels. Indication is in red for H or L level and in green for all other levels.

The MID indicates the brightness using a total of 6 segments.

4873581


1
OVER HEAT
2
LOW COOLANT
3
WATER SEPARATOR
4
REGEN. REQUIRED
5
REGEN. REQUIRED
6
SEL REGEN. REQUIRED
7
SEL REGEN. REQUIRED
8
EXH. SYSTEM
9
LOW FUEL
10
REFILL DEF
11
SYSTEM ERROR
12
REGEN.
L H
13
PM LEVEL
L H
14
CHECK AIR FILTER
15
REGEN. IN PROGRESS
16
CHECKING PM LEVEL
17
LANGUAGE
ENGLISH
18
MAINTENANCE
ON
19
ENG OIL&FILTER
000000mi
20
T/MISSION OIL
000000mi
21
DIFF OIL
000000mi
22
FUEL FILTER
000000mi
23
STEERING OIL
000000mi
24
TIRE ROTATION
000000mi
25
STARTER
000000
26
FUEL ECONO(Ave.)
00.0MPG
27
FUEL ECONO(Trip)
00.0MPG
28
FUEL ECONO(Inst.)
L H
29
VOLTAGE
- +
L H
30
HOUR METER
6.6H
31
9/ 3/2011
(SAT)
32
AM10:00
33
DIMMER
34
PRND 2 1
35
F
E
36
F
E
37
ERROR
MFWJ9ELF000101

4873587

Legend

(1) Engine overheat warning light
(2) Low coolant warning light
(3) Water separator (fuel filter) warning light
(4) Regeneration required warning light (Red)
(5) Regeneration required warning light (Amber)
(6) Selectable regeneration required warning light (Red)
(7) Selectable regeneration required warning light (Amber)
(8) Exhaust system warning light
(9) Low fuel warning light
(10) Refill diesel exhaust fluid (DEF) warning light
(11) System error
(12) DPF regeneration status
(13) DPF PM accumulation level
(14) Air cleaner indicator light
(15) Regeneration in progress indicator light
(16) Checking PM level indicator light
(17) Displayed language
(18) Maintenance indicator light
(19) Engine oil and filter indicator light
(20) Transmission and oil indicator light
(21) Differential gear oil indicator light
(22) Fuel filter indicator light
(23) Power steering fluid indicator light
(24) Tire rotation indicator light
(25) Starter indicator light
(26) Average fuel economy
(27) Per trip fuel economy
(28) Instantaneous fuel economy
(29) Voltmeter
(30) Hour meter
(31) Calendar
(32) Clock
(33) Dimmer
(34) Automatic transmission shift indicator
(35) Diesel exhaust fluid (DEF) gauge

(36) Diesel exhaust fluid (DEF) gauge (empty)/Diesel exhaust fluid (DEF) tank level error

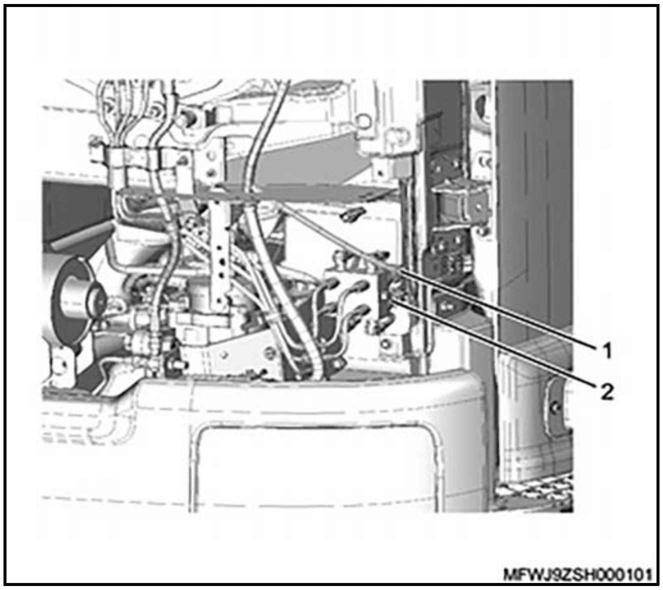
(37) Meter error

Alarm Buzzer

Alarm Contents	Alarm Sound	Operating Conditions
Brake alarm	One continuous beep	The ignition switch is in the ON position.
		The brake fluid switch or over stroke switch is in the ON position.
		The parking brake switch is in the OFF position.
Low brake air pressure alarm	One continuous beep	The ignition switch is in the ON position.
		The low air pressure switch is in the ON position.
		The brake air pressure is decreasing (Determination by sensor).
		The parking brake switch is in the OFF position.
Overheat alarm	One continuous beep	The ignition switch is in the ON position.
		The engine coolant temperature is high.
		The overheat warning light is illuminated.
Back buzzer alarm	A series of long beeps	The ignition switch is in the ON position.
		The reverse switch is in the ON position.
Accessory air low pressure alarm	One continuous beep	Air pressure is below the minimum level
DPF manual regeneration warning	A series of long beeps	The ignition switch is in the ON position.
		The DPF buzzer requests (CAN communication) are received from the ECM.

Air Pressure Gauge

The air pressure gauges are installed on the right side of the instrument panel cluster, and display the pressures on the primary and secondary sides of the air tank. The air pressure gauge on the primary side detects the signals from air pressure sensor 1, and that on the secondary side detects the signals from air pressure sensor 2.



4873589

Legend

(1) Air Pressure Sensor 1

(2) Air Pressure Sensor 2

Battery Description

Maintenance Precautions of Battery

Description

The battery has three main functions. It provides a source of energy for cranking the engine, acts as a voltage stabilizer for the electrical system and, for a limited time, can provide energy when the electrical load exceeds the output of the generator. Refer to Specifications at the end of this section for specific application.

Water never needs to be added to the sealed battery so there are no filler caps on the cover. The special chemical composition inside the battery reduces gassing to a very small amount at normal charging voltages. There are small vent holes in the cover to allow what little gas is produced inside the battery to escape. The special chemistry is also designed to greatly reduce the possibility of overcharge damage.

Since there are vent holes in the cover, the battery should always be kept in an upright position. A small amount of electrolyte may leak from the top of the battery if it is tipped at an angle of more than 45 degrees.

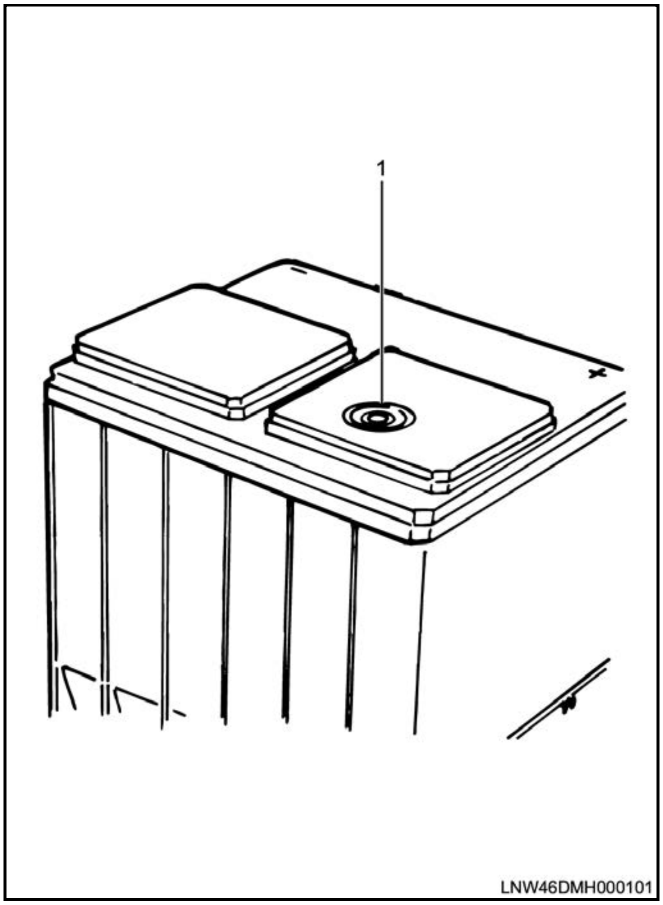
Do not tip the battery more than 45 degrees when carrying or installing it.

Evidence of electrolyte leakage does not necessarily mean that the battery is defective.

Ratings

A battery generally has two classifications of ratings:

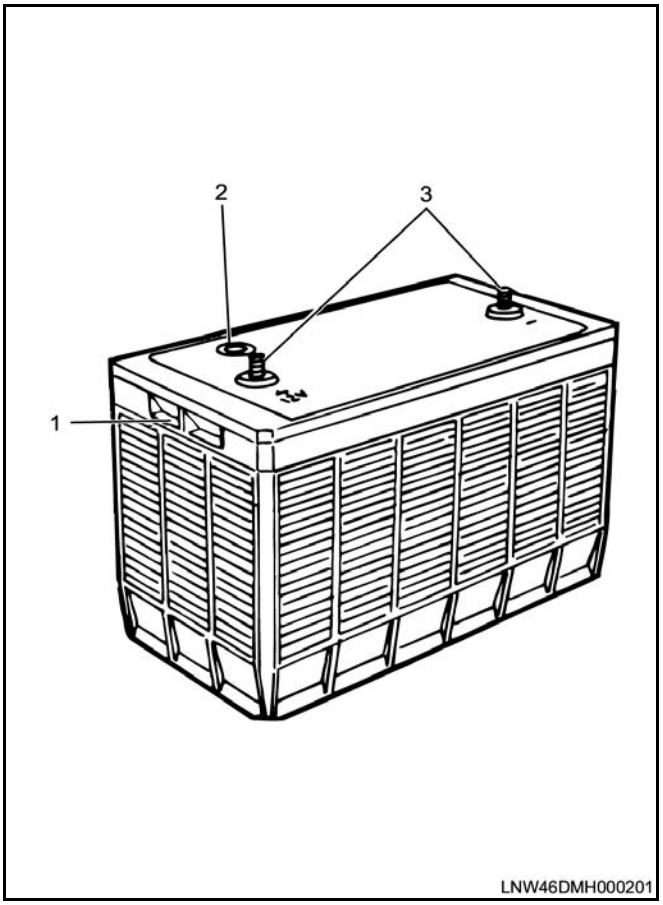
- A reserve capacity rating at 27°C (80°F).
- A cold rating at -18°C (0°F), which indicates the cranking load capacity.



4495901

Legend

(1) Built-In Hydrometer



4495903

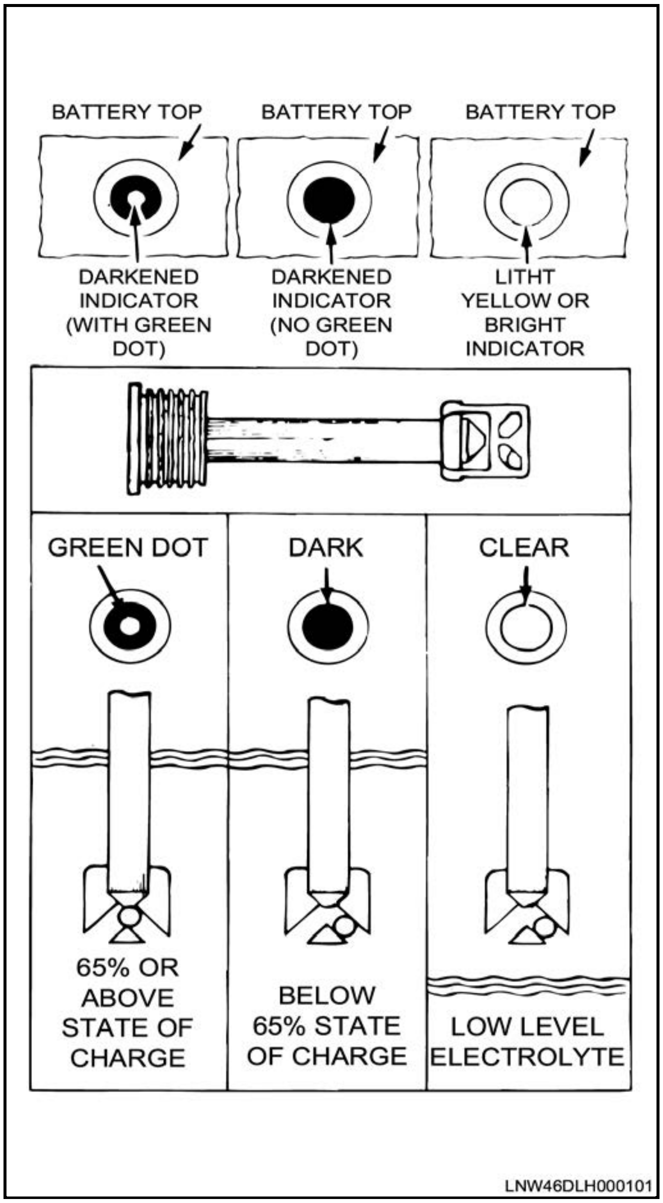
Legend

(1) Finger Grip Handles
(2) Built-In Hydrometer
(3) Terminals

Built-in Hydrometer

The sealed battery has a special temperature compensated hydrometer built into the cover to show the battery's state of charge.

The hydrometer has a green ball within a cage that is attached to a clear plastic rod. The green ball floats at a predetermined specific gravity of the electrolyte representing about a 65 percent state of charge. When the green ball floats, it rises within the cage and positions itself under the rod. A green dot then can be seen in the center of the hydrometer. The built-in hydrometer provides a guide for battery testing and charging. In testing, a visible green dot means the battery is charged enough for testing. If the green dot is not visible, it means the battery must be charged before the test procedure is performed.


BATTERY TOP
BATTERY TOP
BATTERY TOP
DARKENED INDICATOR (WITH GREEN DOT)
DARKENED INDICATOR (NO GREEN DOT)
LITHT YELLOW OR BRIGHT INDICATOR
GREEN DOT
DARK
CLEAR
65% OR ABOVE STATE OF CHARGE
BELOW 65% STATE OF CHARGE
LOW LEVEL ELECTROLYTE
LNW46DLH000101

4495906

In charging, the appearance of the green dot means that the battery is sufficiently charged. Charging can then be stopped to prevent overcharging.

The hydrometer on some batteries may be clear or light yellow. This means the fluid level is below the bottom of the rod and attached cage.

This may have been caused by excessive or prolonged charging, a broken case, excessive tipping or normal battery wear-out.

If a cranking complaint exists, and the hydrometer is clear or light yellow, replace the battery – do not charge, test or jump start the battery.

In order to properly observe the hydrometer, the top of the battery should be clean. A light may also be required when working in a poorly lit area.

Common Causes of Failure

If tests show that a battery is good, yet it does not perform well in service, one of the following conditions may be the problem:

- Vehicle accessories left on for an extended period of time.
- Problem in the charging system, such as a slipping fan belt, high wiring resistance, or a faulty generator or regulator.
- A vehicle electrical load exceeding the generator capacity, with the addition of electrical devices such as radio equipment, air conditioning, window defoggers, or light systems.
- Problems in the electrical system, such as shorted or pinched wires.
- Extended slow-speed driving with many accessories turned on.
- Loose or poor battery cable-to-post connections, previous improper charging or run down battery, or loose hold downs.
- High-resistance connections or other problems in the cranking system.

Electrolyte Freezing

The freezing point of electrolyte depends on its specific gravity. Since freezing may ruin a battery, it should be protected against freezing by keeping it in a charged condition.

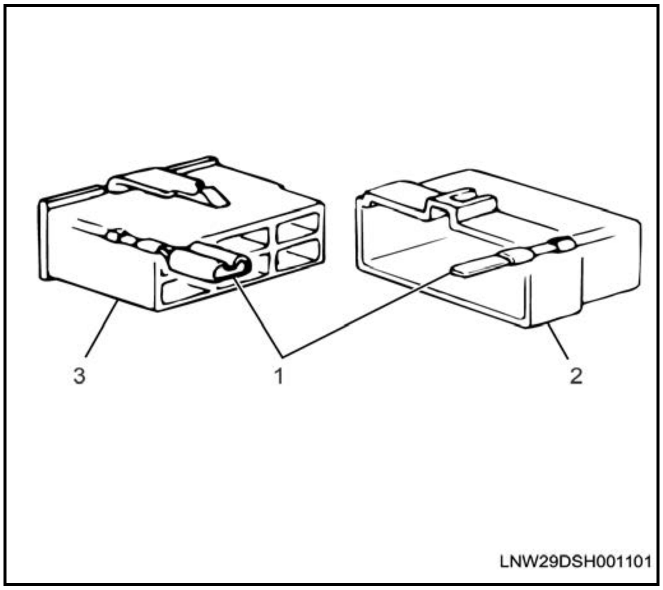
Carrier and Hold-Down

The battery carrier and hold-down should be clean and free from corrosion before installation. The carrier should be in a sound mechanical condition so that it will support the battery securely and keep it level. Be certain there are no foreign objects in the carrier before installation. To prevent the battery from shaking in its carrier, the hold-down bolts should be tight. However, the bolts should not be tightened to the point where the battery case or cover will be placed under a severe strain.

Connector Description

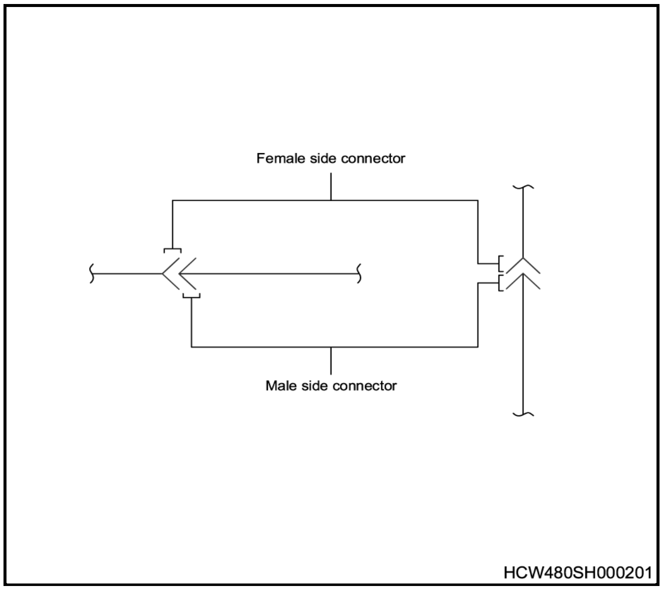
The connector pin shape (1) determines whether the connector is male (2) or female (3).

The connector housing configuration does not determine whether a connector is male or female.


3
1
2
LNW29DSH001101

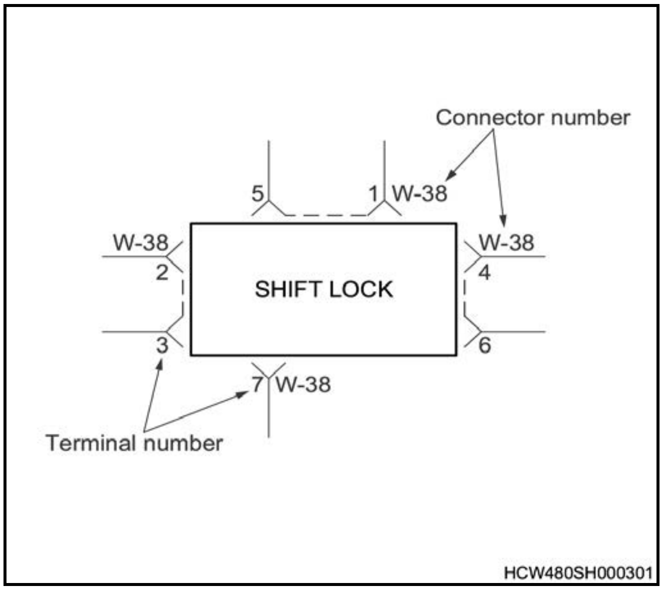
4495847

The symbol illustrated in the figure is used as connector, In the circuit of this section.


Female side connector
Male side connector
HCW480SH000201

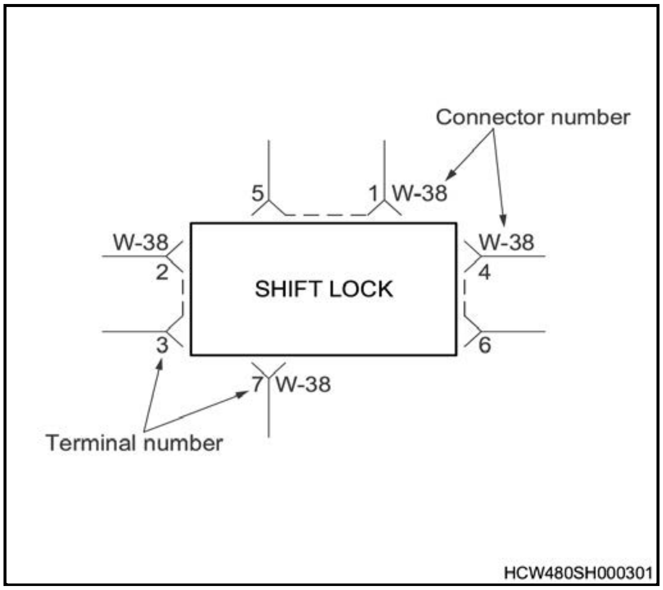
4495853

Connector is identified with a number.


Connector number
5
1
W-38
W-38
2
SHIFT LOCK
W-38
4
3
6
7
W-38
Terminal number
HCW480SH000301

4495856

The applicable terminal number is shown for each connector.


Connector number
5
1
W-38
W-38
2
SHIFT LOCK
W-38
4
3
6
7
W-38
Terminal number
HCW480SH000301

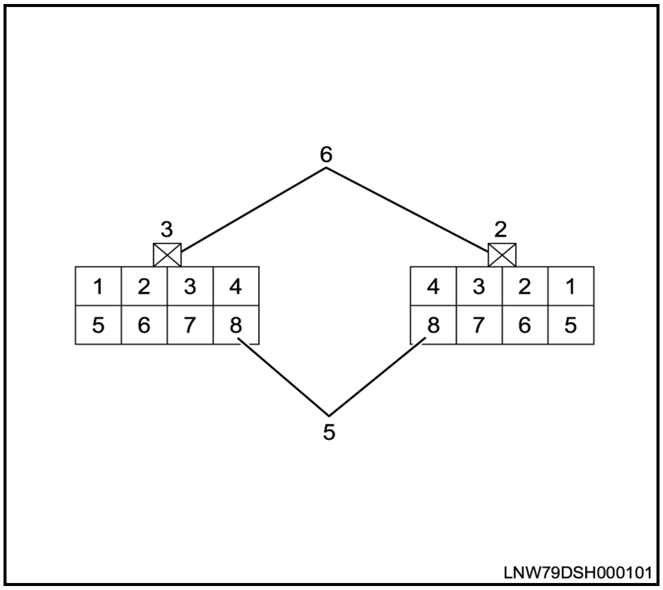
4495856

Connector terminal numbers (5) are clearly shown.

Male side connector (2) terminal numbers are in sequence from upper right to lower left.

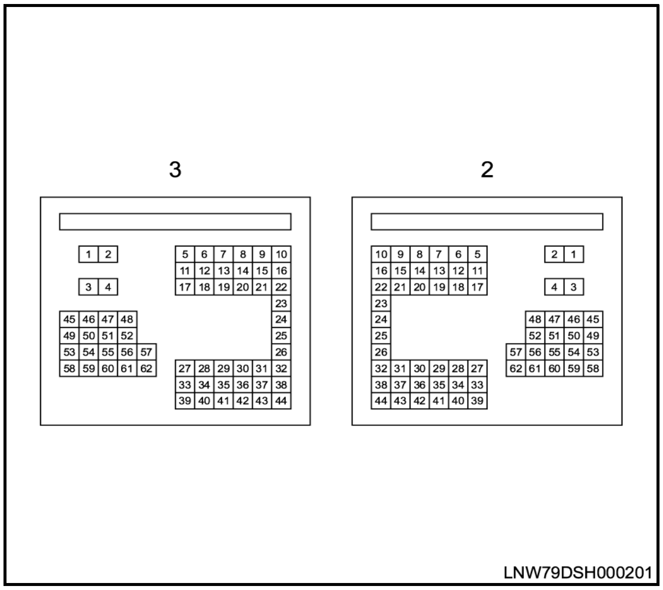
Female side connector (3) terminal numbers are in sequence from upper left to lower right.

Do lock part (6) of the connector up in any case and lock from the opening.


6
3
2
1 2 3 4
5 6 7 8
4 3 2 1
8 7 6 5
5
LNW79DSH000101

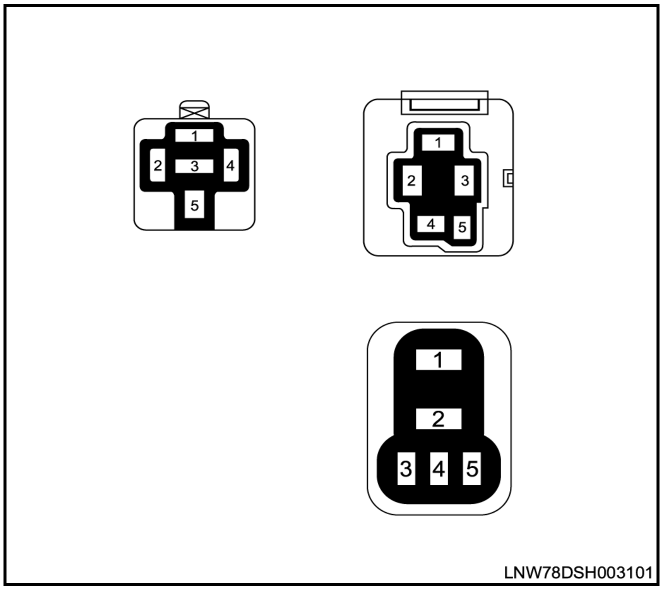
4495860

Note: For those connectors on which specific terminal numbers or symbols are shown (such as ECM), the terminal numbers or symbols are used in the circuit diagram, irrespective of the above rule.


3
2
1 2
3 4
5 6 7 8 9 10
11 12 13 14 15 16
17 18 19 20 21 22
23
45 46 47 48
24
49 50 51 52
25
53 54 55 56 57
26
58 59 60 61 62
27 28 29 30 31 32
33 34 35 36 37 38
39 40 41 42 43 44
10 9 8 7 6 5
2 1
16 15 14 13 12 11
22 21 20 19 18 17
4 3
23
24
48 47 46 45
25
52 51 50 49
26
57 56 55 54 53
32 31 30 29 28 27
62 61 60 59 58
38 37 36 35 34 33
44 43 42 41 40 39
LNW79DSH000201

4495870

The connectors used for relays have their own terminal number assignment, irrespective of the above rule.


1
2
3
4
5
1
2
3
4
5
1
2
3
4
5
LNW78DSH003101

4495865

Reading the Circuit Diagram

In this manual, each system has its own parts location illustration, circuit diagram and connector configuration used in the circuit diagram.

Fuse, Fusible Link, and Slow-Blow Fuse Description

Fuse

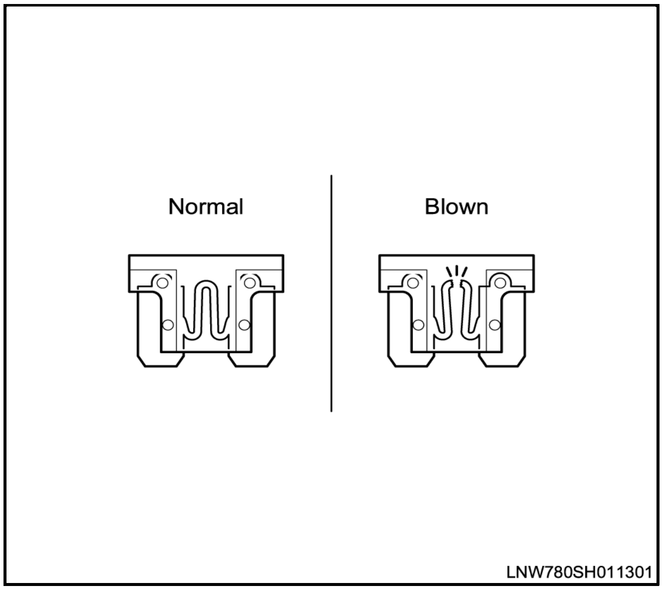
Fuses are the most common form of circuit protection used in vehicle wiring. A fuse is a thin piece of wire or strip of metal encases in a glass or plastic housing. It is wired in series with the circuit it protects. When there is an overload of current in a circuit, such as a short of a ground, the wire or metal strip is designed to burn out and interrupt the flow of current. This prevents a surge of high current from reaching and damaging other components in the circuit.

Determine the cause of the overloaded before replacing the fuse.

The replacement fuse must have the same amperage specifications as the original fuse.

Never replace a blown fuse with a fuse of a different amperage specification.

Doing so can result in an electrical fire or other serious circuit damage. A blown fuse is easily identified.



4495744

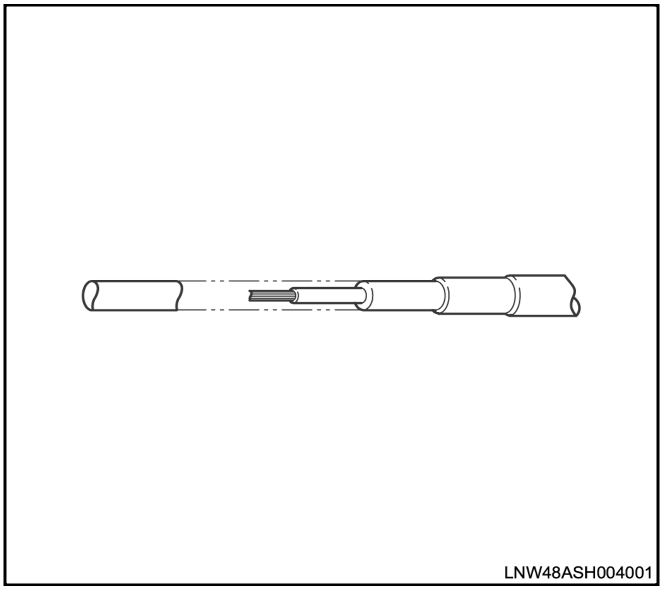
Fusible Link

The fusible link is primarily used to protect circuits where high amounts of current flow and where it would not be practical to use a fuse. For example, the starter circuit. When a current overload occurs, the fusible link melts open and interrupts the flow of current so as to prevent the rest of the wiring harness from burning.

Determine the cause of the overload before replacing the fusible link. The replacement fusible link must have the same amperage specification as the original fusible link.

Never replace a blown fusible link with fusible link of a different amperage specification. Doing so can result in an electrical fire or other serious circuit damage.

A blown fusible link is easily identified.



4495745

Slow-Blow Fuse

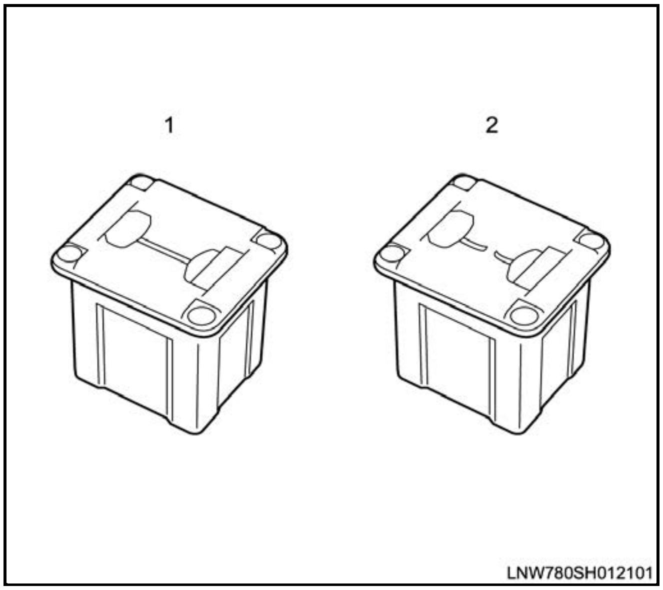
A slow-blow fuse is used in a circuit having a very high current flow (starter) or in an area where an ordinary fuse would be impractical.

Excessive current flow causes the fusible link inside the fuse to melt. Current flow is interrupted. Circuit damage caused by fire or heat is prevented.

Before replacing a fuse, determine the cause of the excessive current.

Always replace the burnt-out fuse with a new fuse of the same amperage rating. Replacing the fuse with one having a higher rating can result in a serious and expensive electrical fire.

Figure 1 shows a normal slow-blow fuse. Figure 2 shows a burnt-out fuse. it is easy to distinguish between the 2 fuses.

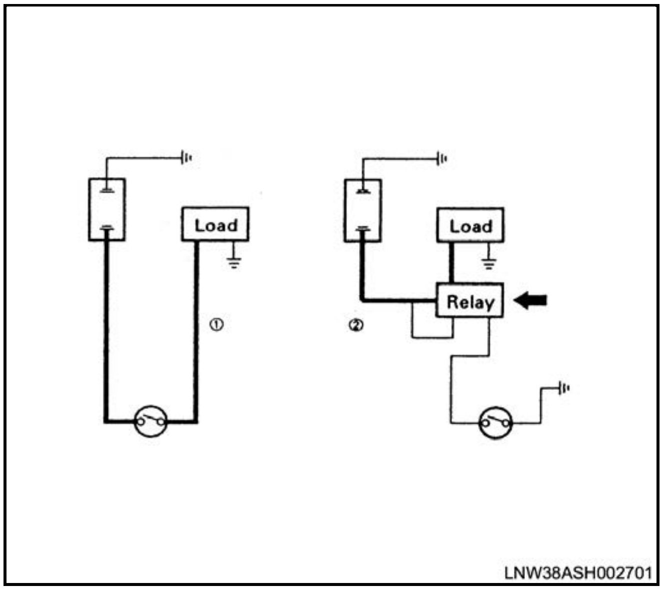


4495747

Slow Blow Fuse Specifications

Type	Rating	Case Color	Maximum Circuit Current (A)
Connector	30A	Pink	15
Connector	40A	Green	20
Connector	50A	Red	25
Connector	60A	Yellow	30

Relay Description

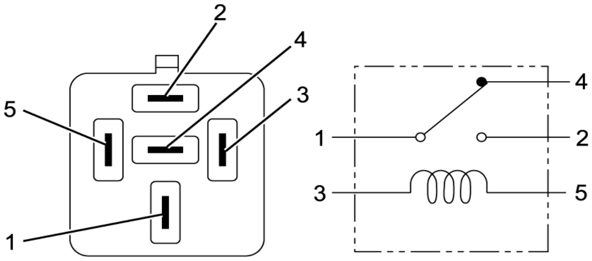
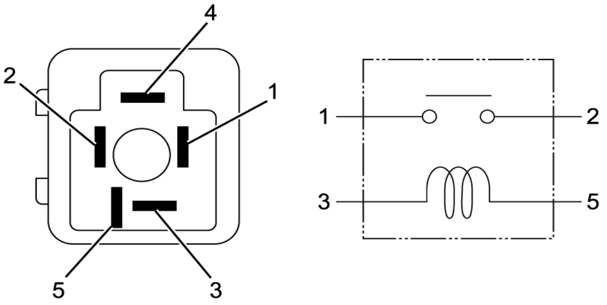


4495750

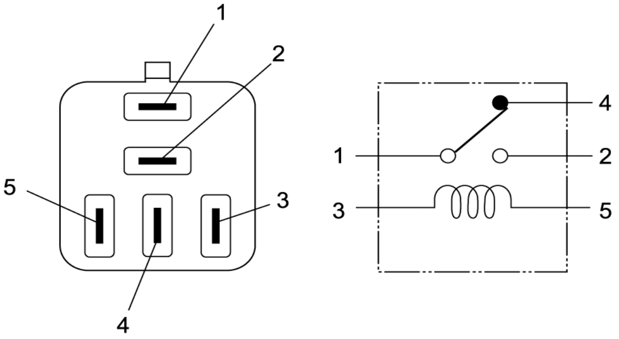
Battery and load location may require that a switch be placed some distance from either component. This means a longer wire and a higher voltage drop (1). The installation the battery and the load reduces the voltage drop (2).

Because the switch controls the relay, amperage through the switch can be reduced.

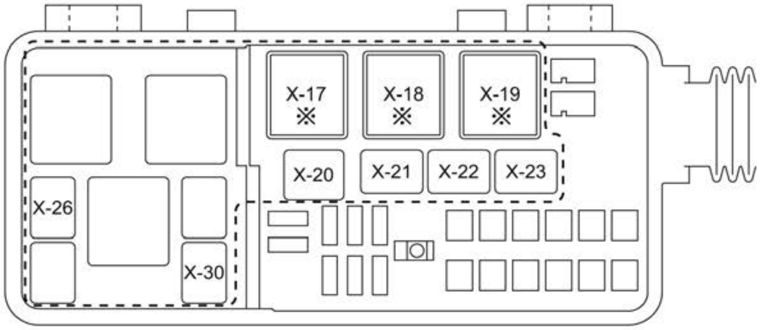
Relay Specification and Configuration

Name/Color	Rated Voltage/Coil Resistance	Internal Circuit
ACB 12201/ Orange	12V/ Approx. 103Ω Minimum operating voltage: 7V at 20°C (68°F)	 LNW780SH011401 4496532
MR82C/ White Label	12V/ Approx. 23Ω Minimum operating voltage: 7V at 25°C (77°F)	 LNW780SH011501 4495836

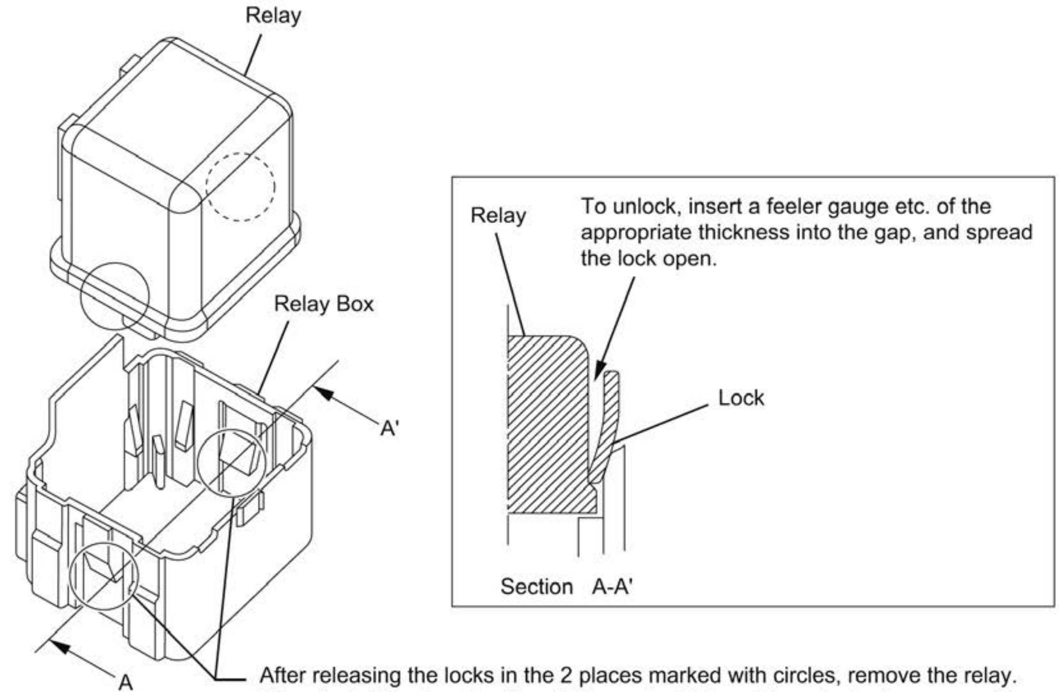
Relay Specification and Configuration (cont'd)

Name/Color	Rated Voltage/Coil Resistance	Internal Circuit
ACM12221 Black	12V/ Approx. 120Ω Minimum operating voltage: 7V at 25°C (77°F)	 RTW78ASH002701 4496680

Relay Exchange Method


X-17 ※
X-18 ※
X-19 ※
X-20
X-21
X-22
X-23
X-26
X-30

When detaching the ※ marked relays, carry out work in accordance with the below procedures.


Relay
Relay Box
A'
A
Relay
Lock
Section A-A'

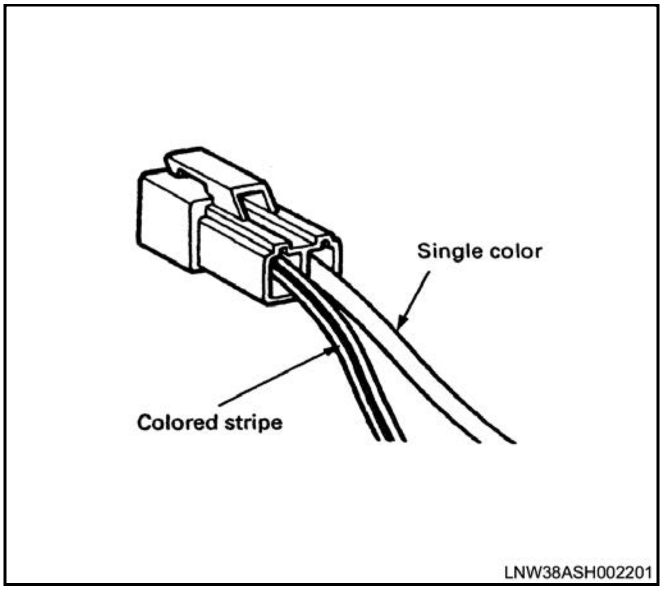
To unlock, insert a feeler gauge etc. of the appropriate thickness into the gap, and spread the lock open.

After releasing the locks in the 2 places marked with circles, remove the relay. When installing, insert until a clicking noise is heard from the lock.

LNWG80LF000401
4495840

Wiring Description

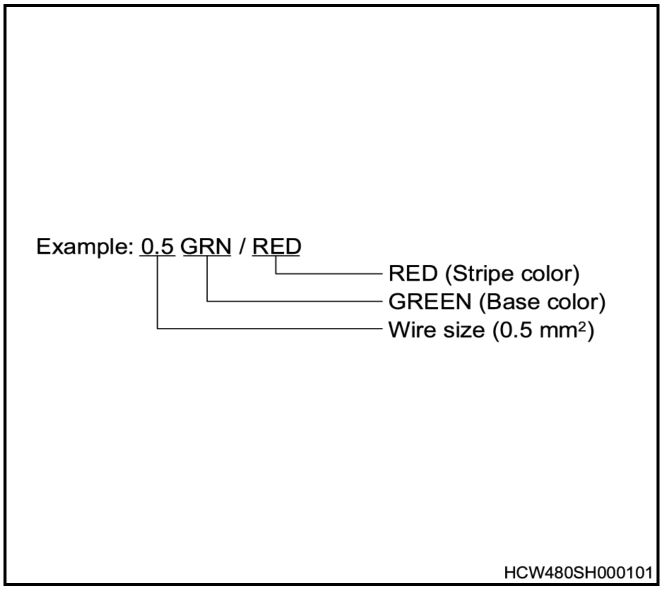
Wire Color


Single color
Colored stripe
LNW38ASH002201

4497541

All wires have color-coded insulation.

Wires belonging to a system's main harness will have a single color. Wires belonging to a system's sub-circuits will have a colored stripe. Striped wires use the following code to show wire size and colors.


Example: 0.5 GRN / RED
RED (Stripe color)
GREEN (Base color)
Wire size (0.5 mm²)
HCW480SH000101

4497542

Abbreviations are used to indicate wire color within a circuit diagram.

Refer to the following table.

Wire Color Coding

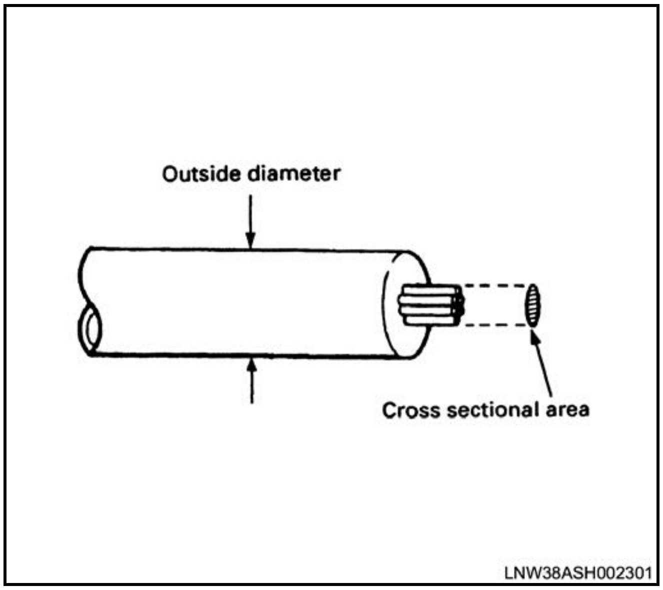
Color-Coding	Meaning	Color-Coding	Meaning
BLK	Black	BRN	Brown
WHT	White	LT GRN	Light Green
RED	Red	GRY	Gray
GRN	Green	PNK	Pink
YEL	Yellow	LT BLU	Light Blue
BLU	Blue	VIO	Violet
ORN	Orange	BEI	Beige
DK	Dark (Modifier)	LT	Light (Modifier)

Distinction of Circuit by Wire Base Color

Base Color	Circuits	Base Color	Circuits
BLK	Starter circuit	YEL	Instrument Circuit
WHT	Charging circuit	BLU, ORN, BRN, LT GRN, GRY, PNK, LT BLU, VIO, BEI	Other Circuit
RED	Lighting circuit		
GRN	Signal circuits		

Wire Size

The size of wire used in a circuit is determined by the amount of current (amperage), the length of the circuit, and the voltage drop allowed. The following wire size and load capacity, shown below, are specified by AWG (American Wire Gauge) (Nominal size means approximate cross sectional area).



4497543

Wire Size Table

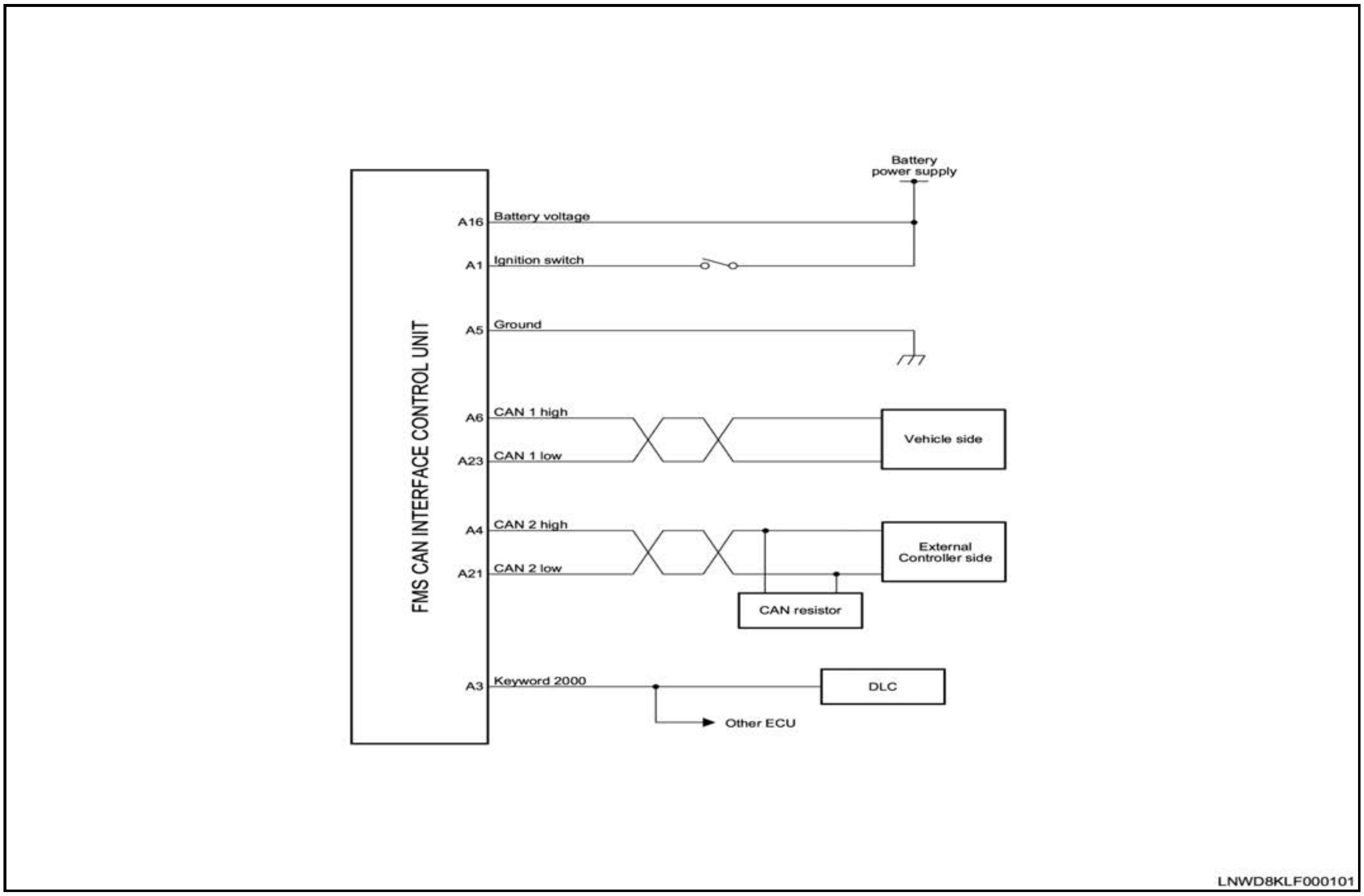
Nominal Size	Cross Sectional Area (mm^2)	Outside Diameter (mm)	Allowable Current (A)	AWG Size (Cross Reference)
0.3	0.372	1.8	9	22
0.5	0.563	2.0	12	20
0.85	0.885	2.2	16	18
1.25	1.287	2.5	21	16
2	2.091	2.9	28	14
3	3.296	3.6	37.5	12
5	5.227	4.4	53	10
8	7.952	5.5	67	8
15	13.36	7.0	75	6
20	20.61	8.2	97	4

Vehicle Control (FMS CAN Interface)

Schematic and Routing Diagrams

FMS CAN Interface Schematics

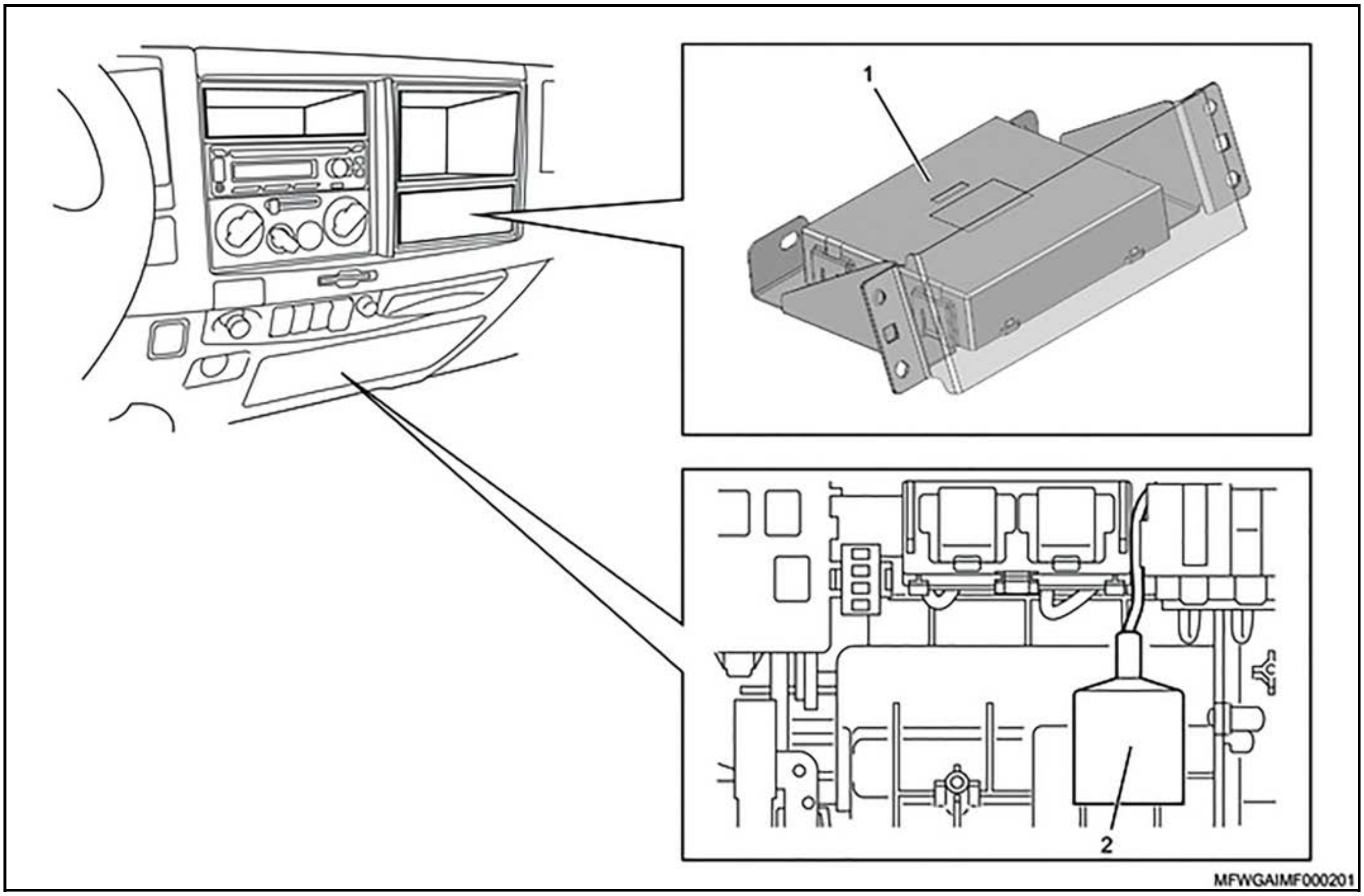
general circuit diagram


FMS CAN INTERFACE CONTROL UNIT
Battery power supply
A16
Battery voltage
A1
Ignition switch
A5
Ground
A6
CAN 1 high
A23
CAN 1 low
Vehicle side
A4
CAN 2 high
A21
CAN 2 low
External Controller side
CAN resistor
A3
Keyword 2000
DLC
Other ECU
LNWD8KLF000101

4499044

Component Locator

FMS CAN Interface Controls Component Views



4874011

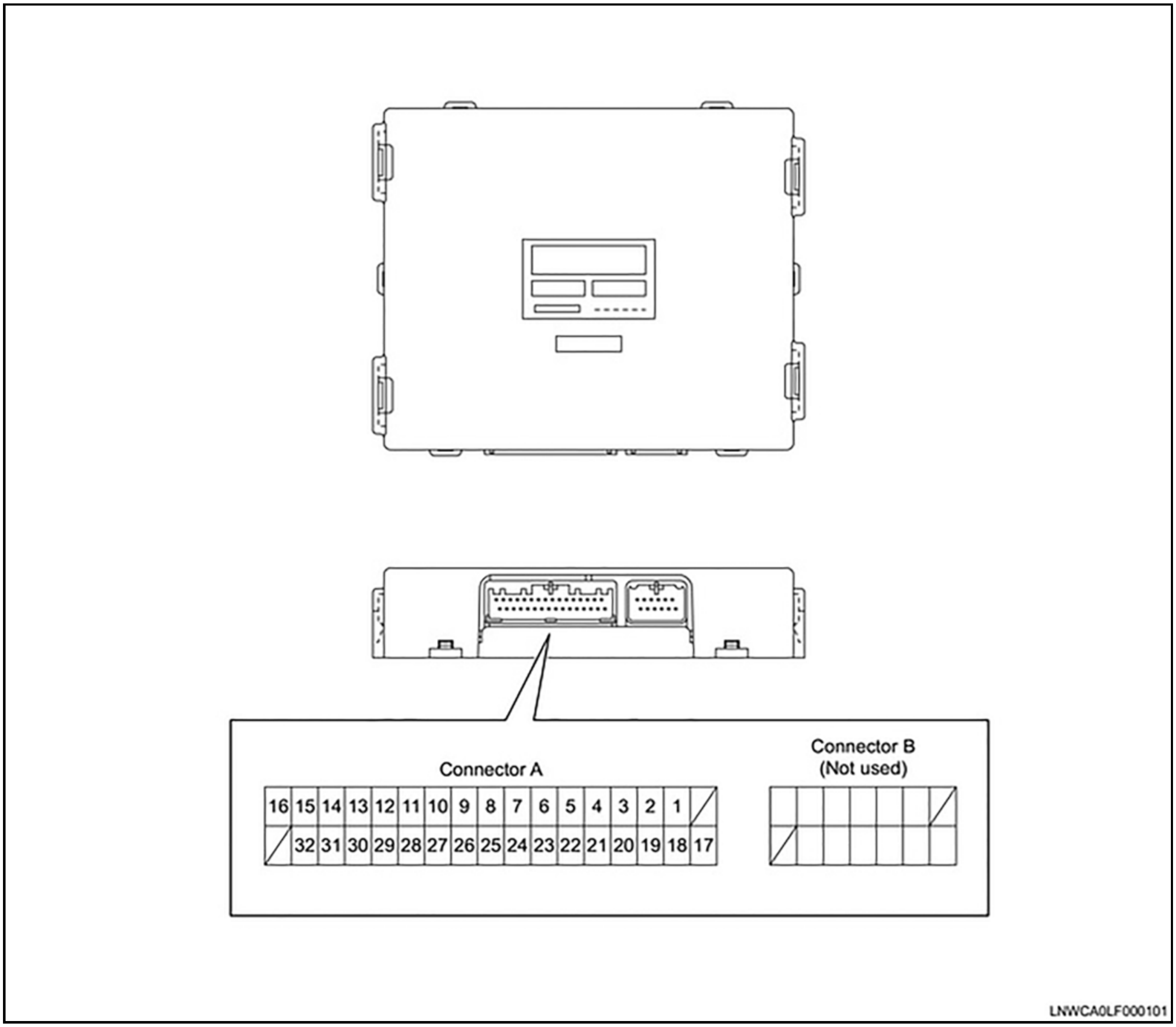
Legend

(1) FMS CAN interface control unit 2.

(2) FMS CAN interface external connector

Visual Identification

Connector End Views


Connector A
16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17
Connector B
(Not used)
LNWCA0LF000101

4874014

Connector A

PIN No.	Pin Function
1	Ignition Voltage
2	—
3	Keyword 2000 Serial Data (ISO 14230)
4	CAN 2 High Signal (J-1939)
5	Ground
6	CAN 1 High Signal (J-1939)
7	—
8	—
9	—
10	—
11	—
12	—
13	—
14	—
15	—
16	Battery Voltage
17	—
18	—
19	—
20	—
21	CAN 2 Low Signal (J-1939)
22	—

Connector A (cont'd)

PIN No.	Pin Function
23	CAN 1 Low Signal (J-1939)
24	—
25	—
26	—
27	—
28	—

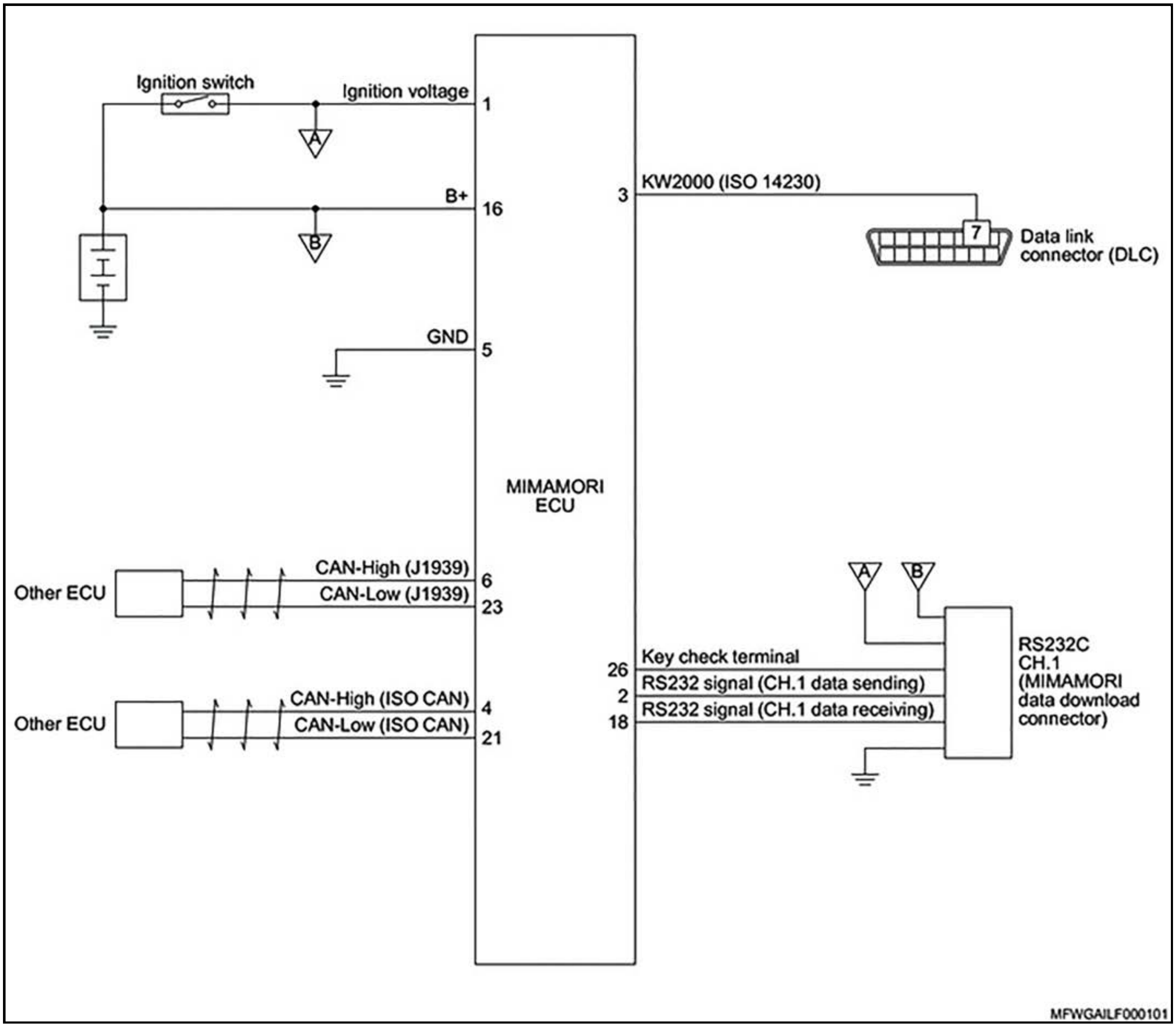
Connector A (cont'd)

PIN No.	Pin Function
29	—
30	—
31	—
32	—

Vehicle Control (MIMAMORI)

Schematic and Routing Diagrams

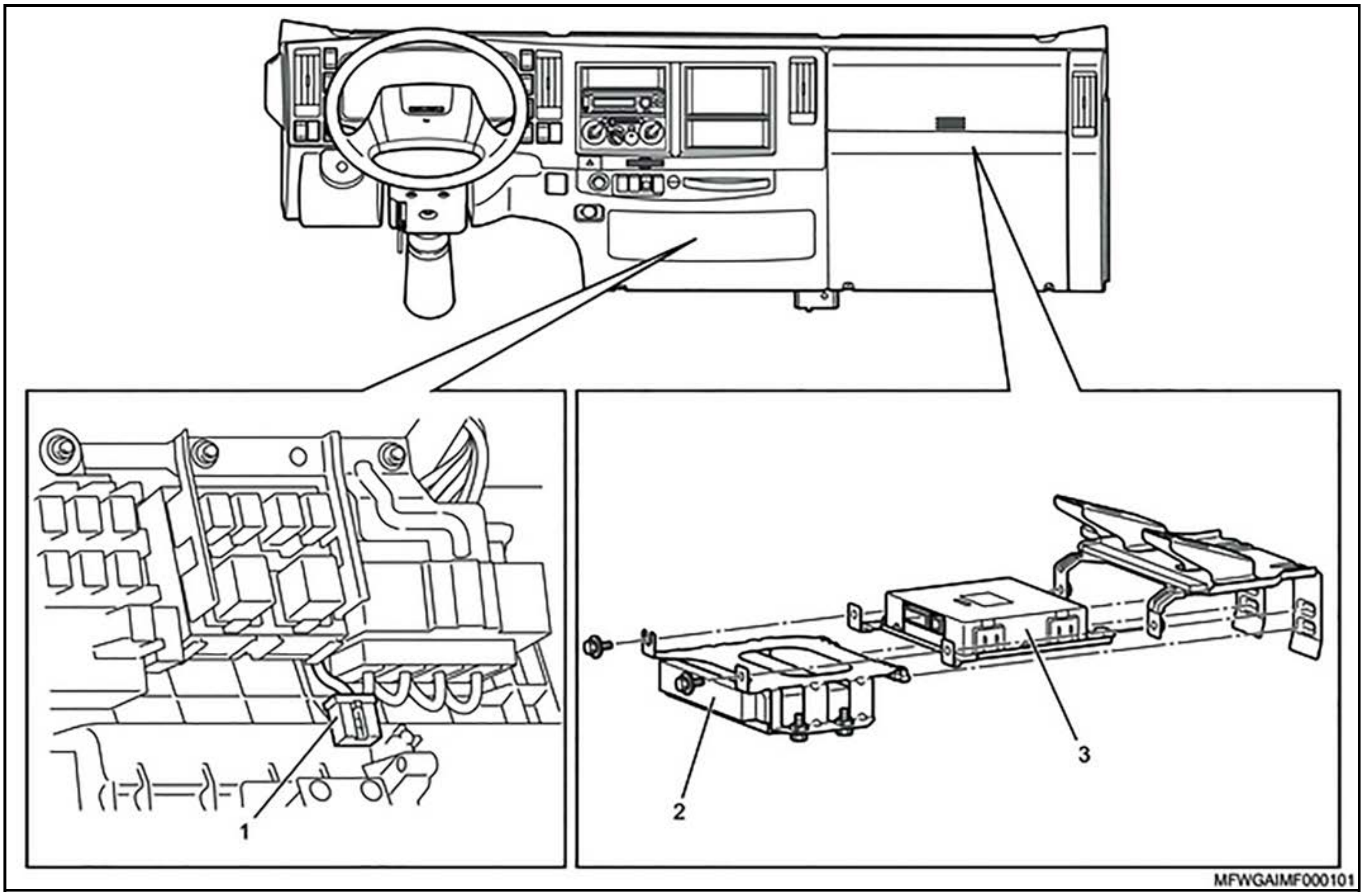
MIMAMORI Schematics


Ignition switch
Ignition voltage
1
A
B+
16
B
GND
5
MIMAMORI ECU
3
KW2000 (ISO 14230)
7
Data link connector (DLC)
Other ECU
CAN-High (J1939)
CAN-Low (J1939)
6
23
Other ECU
CAN-High (ISO CAN)
CAN-Low (ISO CAN)
4
21
A
B
Key check terminal
RS232 signal (CH.1 data sending)
RS232 signal (CH.1 data receiving)
26
2
18
RS232C CH.1 (MIMAMORI data download connector)
MFWGAILF000101

4874022

Component Locator

MIMAMORI Controls Component Views



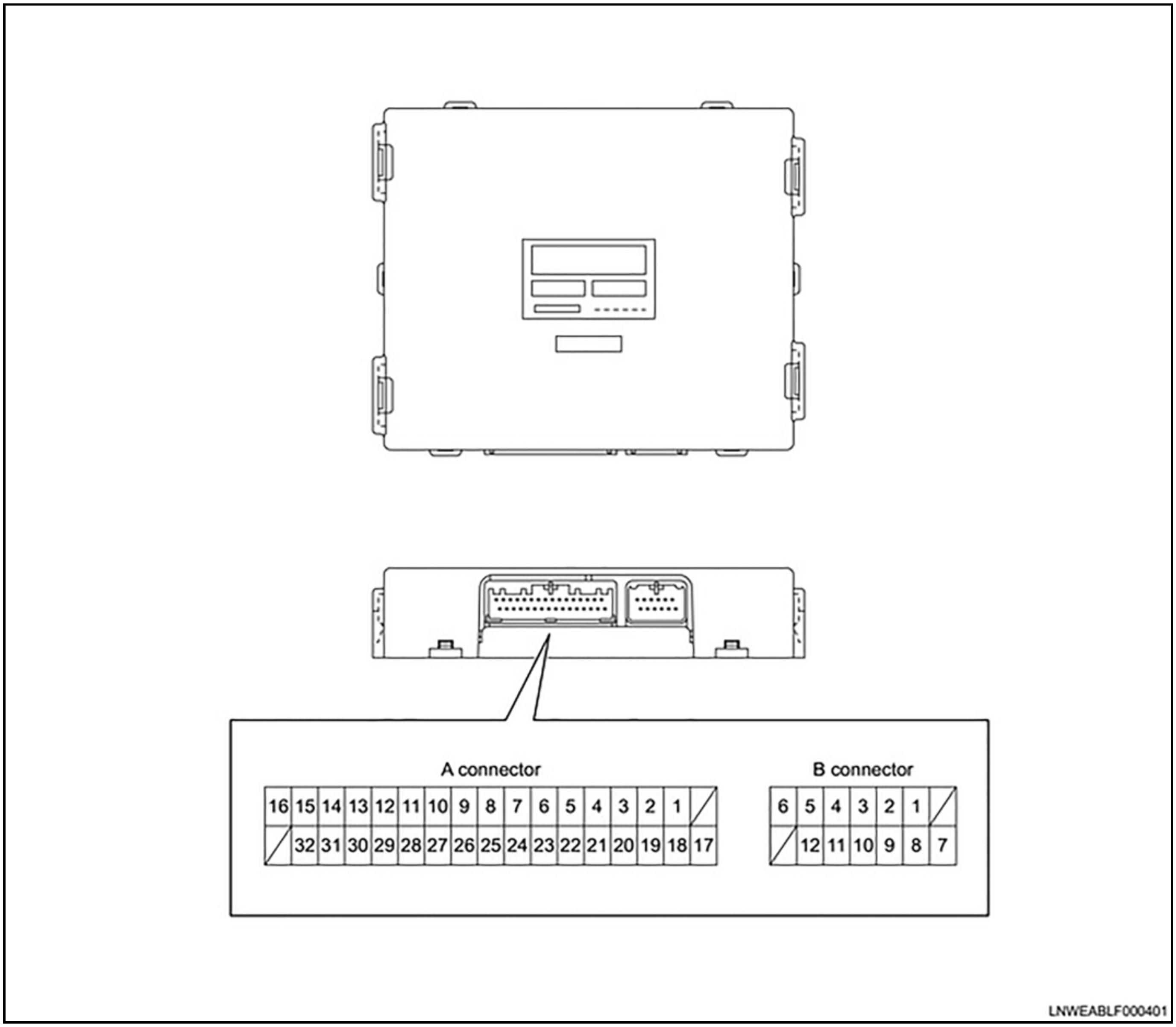
4874020

Legend

(1)	MIMAMORI data download connector	(3)	MIMAMORI ECU
(2)	ABS control unit		

Visual Identification

Connector End Views


A connector
16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17
B connector
6 5 4 3 2 1
12 11 10 9 8 7
LNWEABLF000401

4874024

A connector (32 pin)

PIN No.	Pin Function
1	Ignition Voltage
2	RS232 signal for data download (CH1 data sending)
3	Keyword 2000 Serial Data
4	ISO CAN (High)
5	Ground
6	J-1939 CAN (High)
7	—
8	—
9	—
10	—

A connector (32 pin) (cont'd)

PIN No.	Pin Function
11	—
12	—
13	—
14	—
15	—
16	Battery Voltage
17	—
18	RS232 signal for data download (CH1 data receiving)
19	—
20	—
21	ISO CAN (Low)

A connector (32 pin) (cont'd)

PIN No.	Pin Function
22	—
23	J-1939 CAN (Low)
24	—
25	—
26	Key check terminal for data download
27	—
28	—

A connector (32 pin) (cont'd)

PIN No.	Pin Function
29	—
30	—
31	—
32	—

Note: Do not use the B connector (12 pin).

C

Component Connector End Views 2-105
Component Views
  FMS CAN Interface Controls 2-884
  MIMAMORI Controls 2-888

D

Driver Information
  Description 2-862

E

Engine Identification 1-8

I

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Ignition Switch
  Description 2-862
Instrumentation and Driver Information
  Diagnosis Introduction 2-775

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Lighting Systems
  Description 2-854

M

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R

RPO Code List 1-6

S

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  Exhaust System 2-87
  Power Outlet/Power Source 2-78
  Power Take-Off System 2-80
  Rear Manufacture Connector 2-76

V

Vehicle Identification 1-5

W

Wiper/Washer
  Systems Description 2-861

BLANK